



ALWINTITE®

ALUMINUM WINDOWS

- HORIZONTAL SLIDING WINDOWS
- PICTURE SLIDING WINDOWS
- DOUBLE HUNG WINDOWS
- PICTURE WINDOWS
- AWNING WINDOWS
- VIEWALL WINDOW WALLS
- PAN-O-RAMA SLIDING WALLS
- STORM SASH AND SCREENS
- COMBINATION STORM AND SCREEN WINDOWS
- COMBINATION STORM AND SCREEN DOORS

AB 55



ALWINTITE

OUR HISTORY

You're safe when you specify products of a company which has been faithfully serving the building industry for 45 years. The history of General Bronze Corporation goes back to 1910 and the company's growth since then is one of dramatic and thrilling accomplishment.

PRODUCTION FACILITIES



ALWINTITE aluminum windows by General Bronze are made in the world's largest aluminum window plant. This new, modern plant at Garden City, New York, covers more than 5½ acres of land, provides 300,000 square feet of factory space and has a production capacity of more than 4,000 aluminum windows per day.

RESEARCH AND TESTING

The performance of ALWINTITE windows must meet the exacting requirements of General Bronze research and testing laboratories. Before being approved for the production line, new windows are submitted to weather tests ranging from simulated drizzle and driving rain to gusty squalls and hurricanes up to 110 miles per hour.



MATERIALS AND WORKMANSHIP

ALWINTITE aluminum windows are engineered from the finest quality extruded sections and embody the latest and most advanced features in design, operation and construction. And architects and builders can choose from the widest assortment of aluminum window and door products available anywhere.

EXTRA ARCHITECTURAL SERVICE

ALWINTITE distributors, located conveniently across the country, provide competent architectural engineers for counsel at no obligation. Completely assembled windows are delivered promptly from nearby warehouse stocks for quick, easy installation.



Seals of Approval



Hotels - Hospitals - Apartment Houses



Small Homes - Custom Built Homes



Schools - Institutions

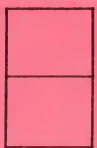
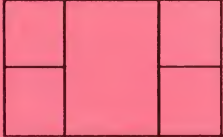
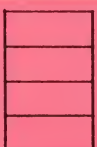


Commercial Buildings



Selector Guide

SIZES AND DETAILS IN THIS CATALOG
ARE SUBJECT TO CHANGE WITHOUT NOTICE

SLIDING WINDOWS	HORIZONTAL		Half Size Installation Details (with Integral Fin Trim) ...5-6-7 Size Data Chart for Integral Fin Trim 6 Wood Buck Installation Details Full Size 9 Wood Buck Installation Details Half Size 10 Size Data Chart for Wood Buck 10	4-11	a ₁
	PICTURE		Half Size Installation Details 13-14-15 Size Data Chart for Picture Sliding Window 14 Specifications 15	12-15	a ₂
DOUBLE HUNG WINDOWS	STANDARD		Full Size Details with Fin Trim 18 Window Types and Sizes 18 1/4 Size Details with Fin Trim 19 Rough Opening Size Chart 19 Full Size Details without Fin Trim 20 1/4 Size Details without Fin Trim 21 Rough Opening Size Chart 21 Mullion Details and Window Area Size Chart 22 Storm Sash and Screens 23 Specifications 23	16-23	b ₁
	STANDARD PICTURE		Window Types including Fixed Glass Sections 24 Full Size Details 25 Schedule of Glass Sizes 25 1/4 and Half Size Installation Details 26 Rough Opening Size Charts 26	24-26	b ₂
AWNING WINDOWS			Special Features 28 Standard and Modular Unit Sizes 29 Size Data Chart for Awning Window 29 Full Size Details 30 1/4 Size Details 31 180° Mullions-Awning and Picture Windows 32 Schedule of Glass Sizes for Picture Windows 33 Specifications 33	27-33	c
VIEWALL WINDOW WALLS			Half Size Installation Details 35 Half Size Installation Details (with Fin Trim) 36 Size Data Chart for Viewall Window Walls 36 Specifications 37	34-37	d
SLIDING WALLS			Sliding Wall Elevations 39 Size Data Chart for Sliding Walls 39 Half Size Details 40-41 Half Size Installation Details 41-42-43-44 Specifications 45	38-45	e
COMBINATION STORM AND SCREEN WINDOWS			New Improved Design Interlocking Meeting Rails—Sloping Sill and Quick Insert Removal—Safety Devices 46	46	f
COMBINATION STORM AND SCREEN DOORS			Precision Engineered for Quality Performance Cushion Closure—Tension Rods—Butted Corners—Vinyl Weatherstripped—Embossed Kick Plate—Weatherlip on Inserts—Built-in Sweep 47	47	f

Houses Sell Faster...

Home buyers love . . . architects, builders and interior decorators recommend . . . the many practical advantages of ALWINTITE horizontal sliding windows. They can be used in all style houses — in all price classes.

Light weight sash—easily removed for full ventilation or cleaning

More usable wall space for better furniture arrangement

Privacy with eye level visibility

Stainless steel weather-stripping

Plastic glazing channels

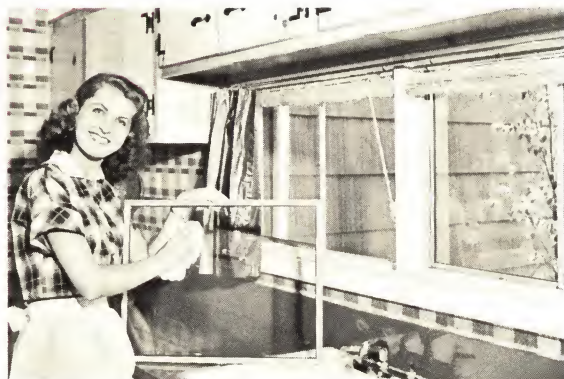
Sliding sash—no straining to open or close

Easy to install screens and storm sash

Simple, easy, low-cost installation

Enthusiastic customer acceptance

You'll like the smart, trim lines of the ALWINTITE Sliding Windows . . . their quality construction . . . their built-in stainless steel weather-strip . . . their smooth, easy gliding operation . . . their simple money-saving installation . . . their surprisingly low cost. They are available in 15 popular sizes.



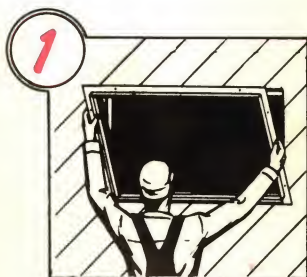
So simple to clean. Both sash easily removed for full ventilation.



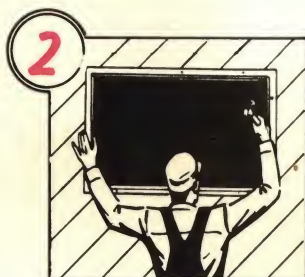
Complete inside privacy with eye-level visibility.



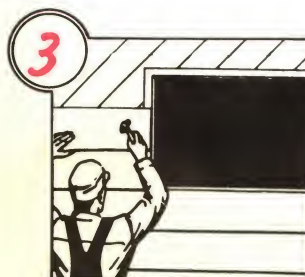
No straining to open or close. More usable space for furniture



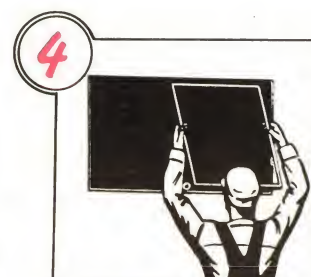
Set window frame in position, plumb and square.



Drive home 10 nails—through holes already in Fin,



Run siding material up to trim stop. No exterior wood trim is needed.

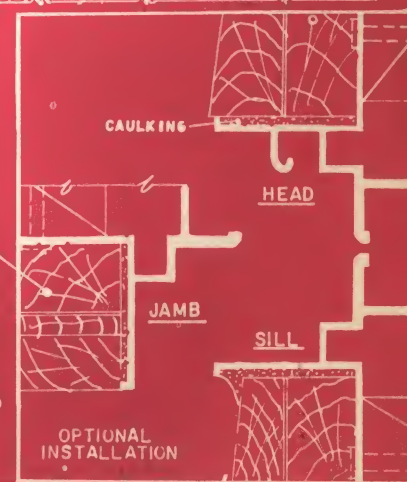
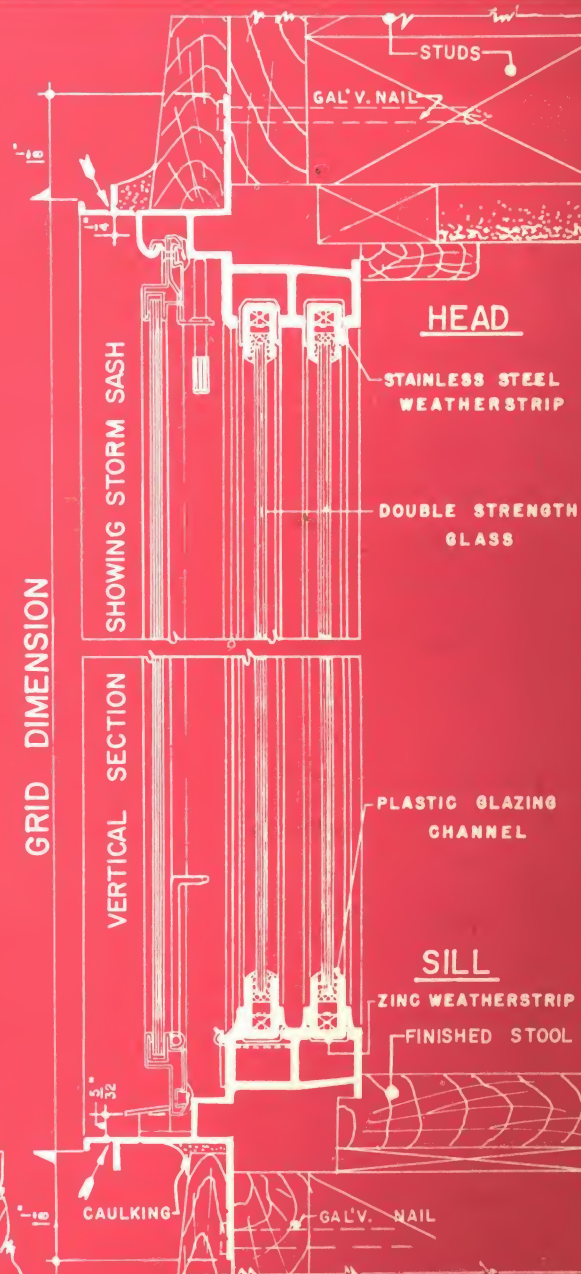
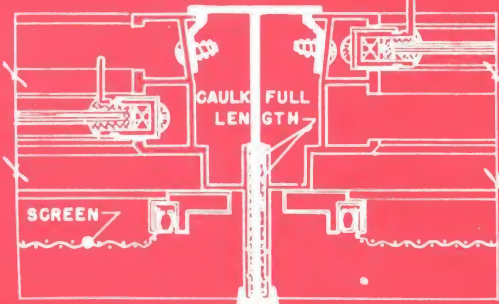


Caulk and put sliding sash units in place. Job is complete.

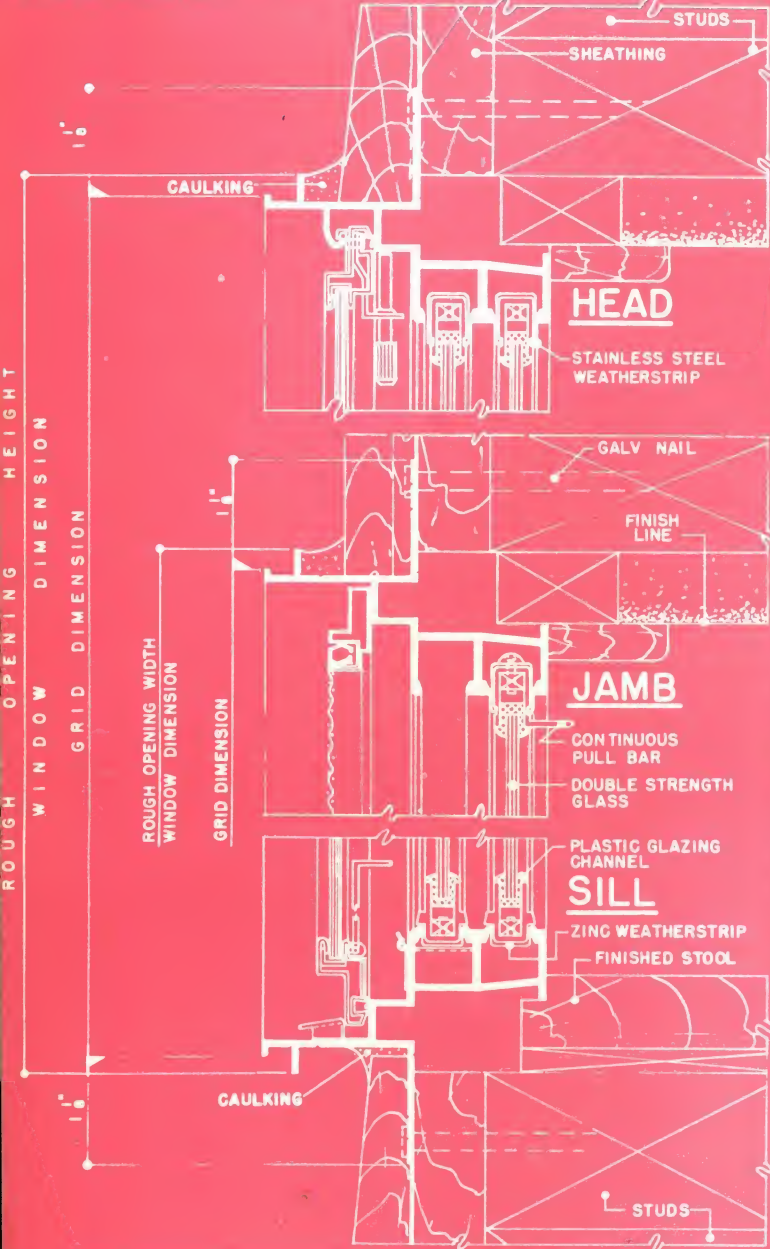
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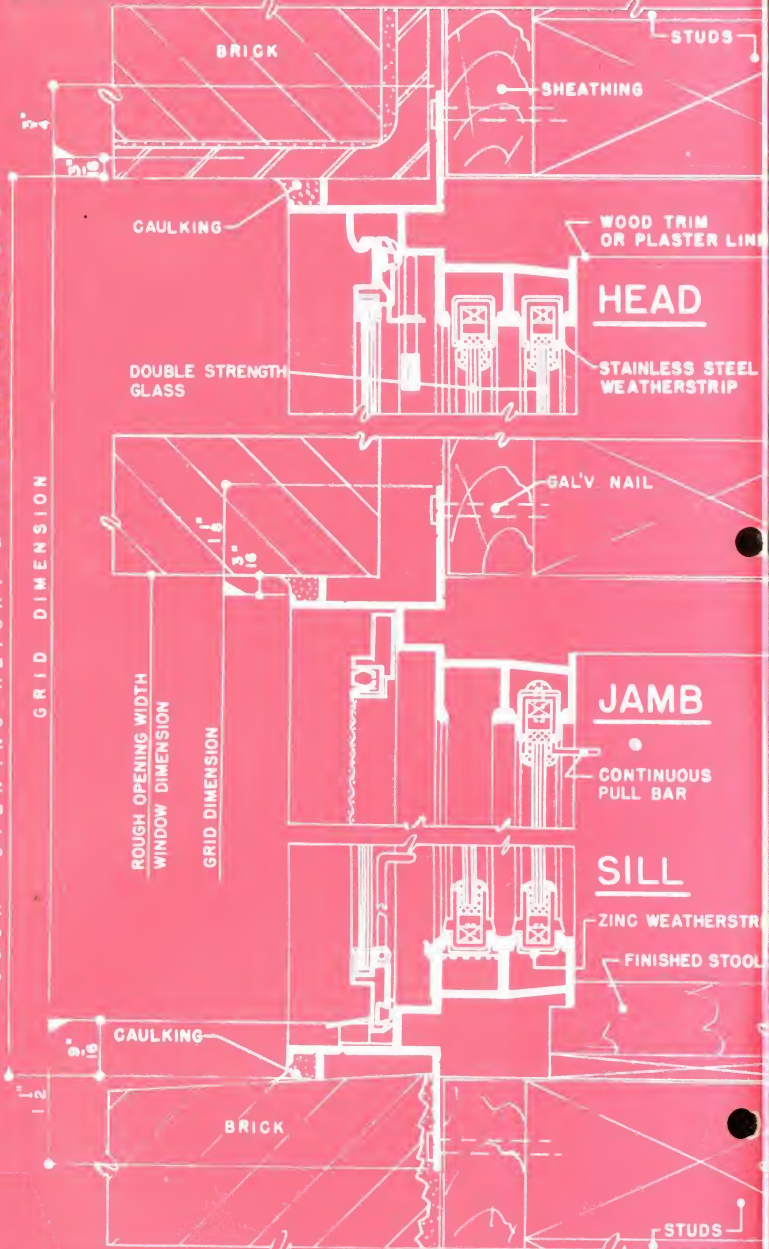
LOCAL NO. 04
DIVISION OF ANALYTICAL CHEMISTRY
AMERICAN CHEMICAL SOCIETY
GRANT NO. 351



FRAME CONSTRUCTION



BRICK VENEER



HORIZONTAL SLIDING WINDOW WITH INTEGRAL FIN-TRIM SIZE DATA

Nominal Size	Window Area* (Sq. ft.)	Modular Grid Size Width Height		Window Dimensions and Rough Opening				Window Glass Size Width Height		Storm Glass Width	Sash Size Height
				Window Dimension (& Single Width)	Double Width	Triple Width	Height (& Window Dim.)				
STANDARD											
11117-SF	2.42	—	—	1'-11¾"	3'-11⅜"	5'-10⅝"	1'-7¾"	10⅜"	16⅜"	21⅝"	17½"
3020-SF†	5.17	—	—	3'- 0⅞"	6'- 1⅛"	9'- 2"	2'-0⅞"	16¾"	21½"	34¾"	22⅝"
3921-SF†	7.06	—	—	3'-10⅜"	7'- 8⅞"	11'- 6½"	2'-2⅜"	21½"	23"	44¼"	24⅞"
MODULAR											
2020-MF	3.19	2'-0"	2'-0"	2'- 0⅜"	4'- 0⅞"	6'- 0½"	2'-0⅜"	10½"	21"	22¼"	22⅞"
3020-MF	4.97	3'-0"	2'-0"	3'- 0⅜"	6'- 0⅞"	9'- 0½"	2'-0⅜"	16½"	21"	34¼"	22⅞"
3030-MF	7.76	3'-0"	3'-0"	3'- 0⅜"	6'- 0⅞"	9'- 0½"	3'-0⅜"	16⅞"	33"	34¼"	34⅞"
3034-MF	8.69	3'-0"	3'-4"	3'- 0⅜"	6'- 0⅞"	9'- 0½"	3'-4⅜"	16⅞"	37"	34¼"	38⅞"
3420-MF	5.57	3'-4"	2'-0"	3'- 4⅜"	6'- 8⅞"	10'- 0½"	2'-0⅜"	18½"	21"	38¼"	22⅞"
3434-MF	9.73	3'-4"	3'-4"	3'- 4⅜"	6'- 8⅞"	10'- 0½"	3'-4⅜"	18⅞"	37"	38¼"	38⅞"
4020-MF	6.76	4'-0"	2'-0"	4'- 0⅜"	8'- 0⅞"	12'- 0½"	2'-0⅜"	22½"	21"	46¼"	22⅞"
4030-MF	10.55	4'-0"	3'-0"	4'- 0⅜"	8'- 0⅞"	12'- 0½"	3'-0⅜"	22⅞"	33"	46¼"	34⅞"
4034-MF	11.81	4'-0"	3'-4"	4'- 0⅜"	8'- 0⅞"	12'- 0½"	3'-4⅜"	22⅞"	37"	46¼"	38⅞"
4838-MF	15.37	4'-8"	3'-8"	4'- 8⅜"	9'- 4⅞"	—	3'-8⅜"	26⅞"	41"	54¼"	42⅞"
6020-MF	10.33	6'-0"	2'-0"	6'- 0⅜"	12'- 0⅞"	—	2'-0⅜"	34⅞"	21"	34¾"	22⅞"
6030-MF	16.12	6'-0"	3'-0"	6'- 0⅜"	12'- 0⅞"	—	3'-0⅜"	34⅞"	33"	34¾"	34⅞"

SF — STANDARD
MF — MODULAR

* Area Between Stop Beads

§ Two 3020 Storm Sash

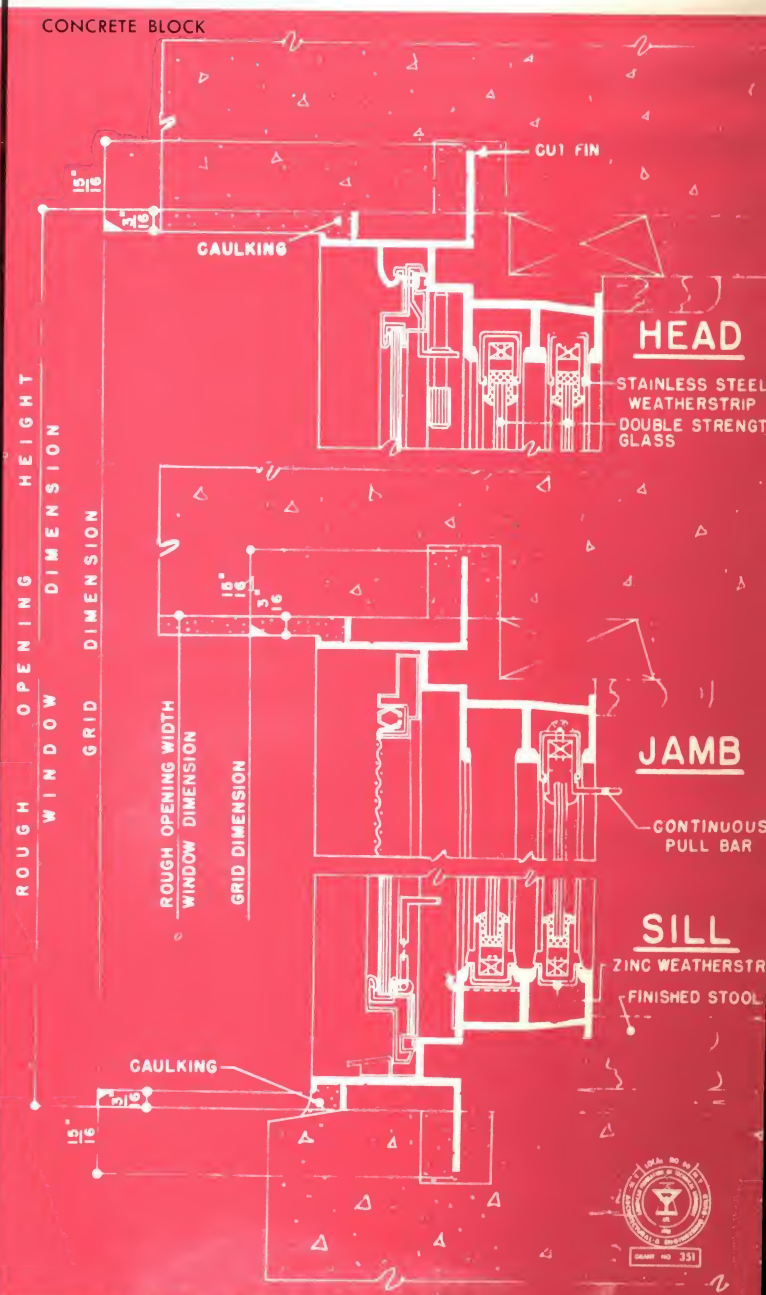
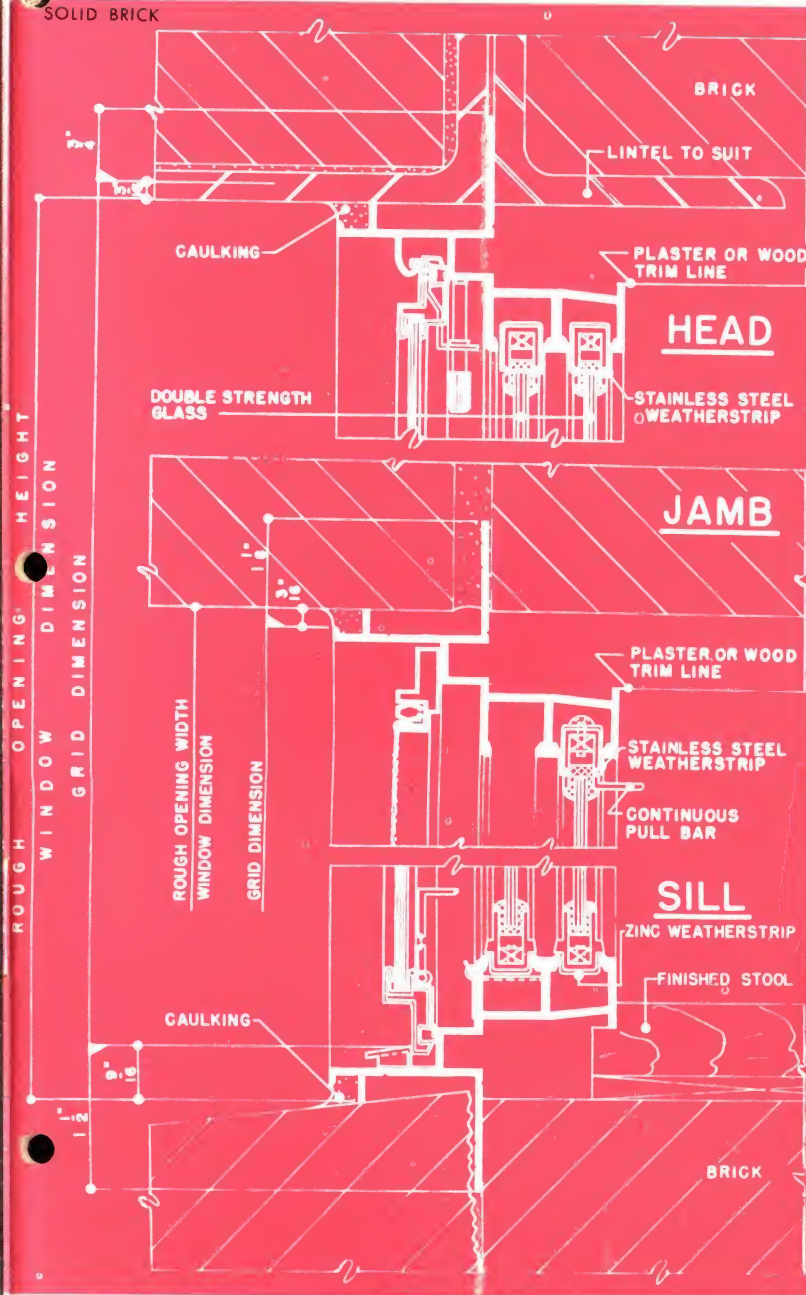
§ Two 3030 Storm Sash

Glass Tol. + 1/16" - 0"

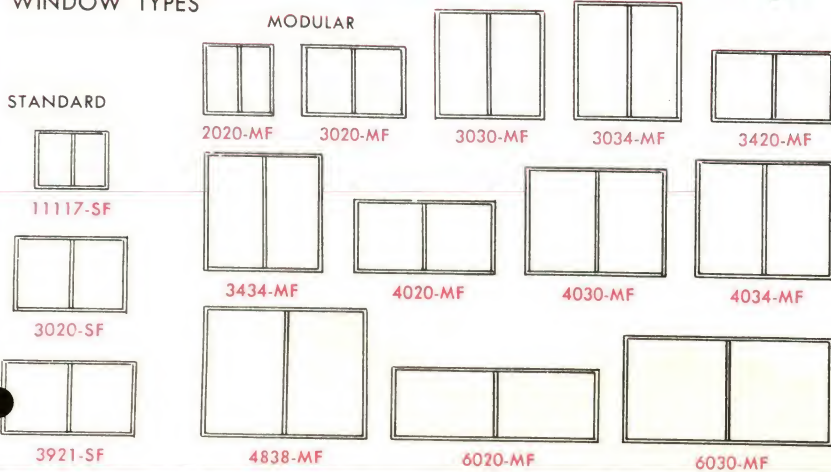
Glass Tol. ± 1/32"

† Also Available for Double Glazing—See Page 11

HALF SIZE INSTALLATION DETAILS



WINDOW TYPES



WOOD BUCK INSTALLATIONS

**FOR BOTH... HIGH-PRICED LUXURY HOUSES
AND LOW-COST BUDGET HOMES**



USE THEM SINGLY, MULLIONED
OR IN WINDOW PANEL SYSTEMS.



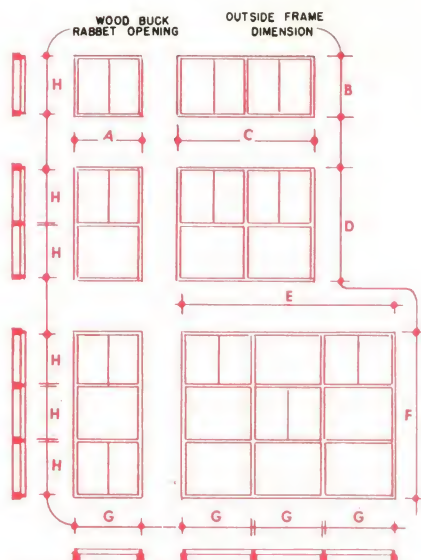
UNUSUAL ARCHITECTURAL TREATMENTS.



\$9900 POPULAR PRICED
RANCH HOME



FEATURED IN \$30,000 LUXURY HOMES



SUGGESTED ARRANGEMENTS AVAILABLE
IN 15 POPULAR SIZES (SEE PAGE 10).

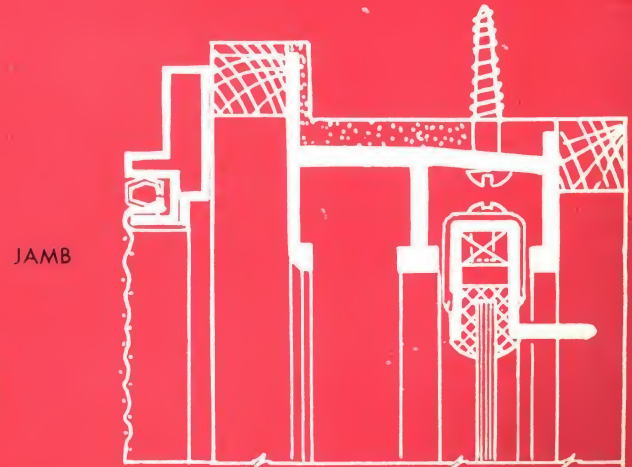
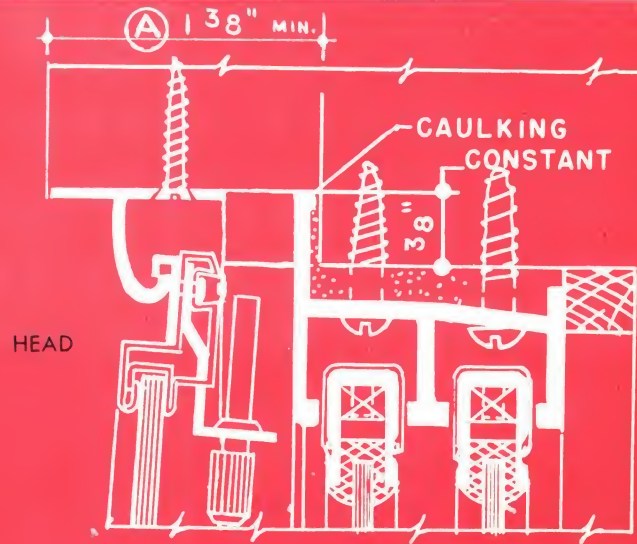
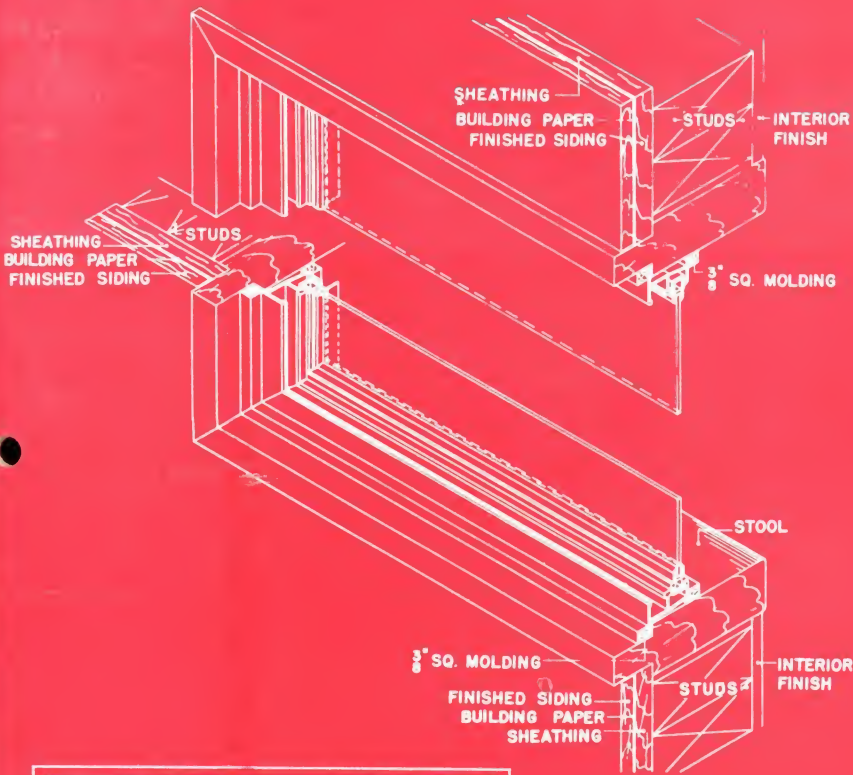


QUALITY CONSTRUCTION... BUILT-
IN STAINLESS STEEL WEATHERSTRIP.

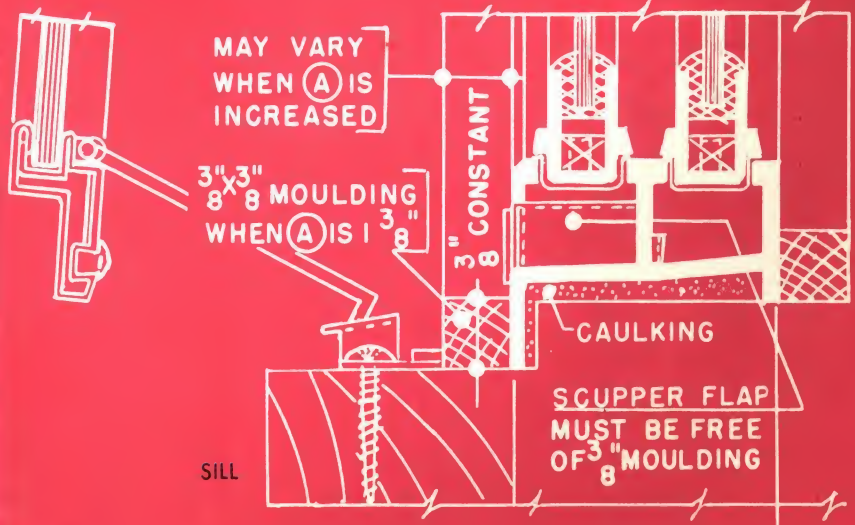
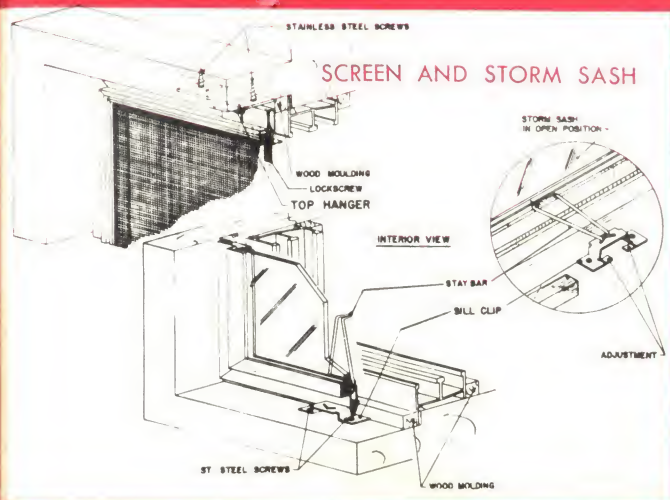
ALWINTITE HORIZONTAL SLIDING WINDOWS WOOD BUCK INSTALLATION

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FULL SIZE DETAILS

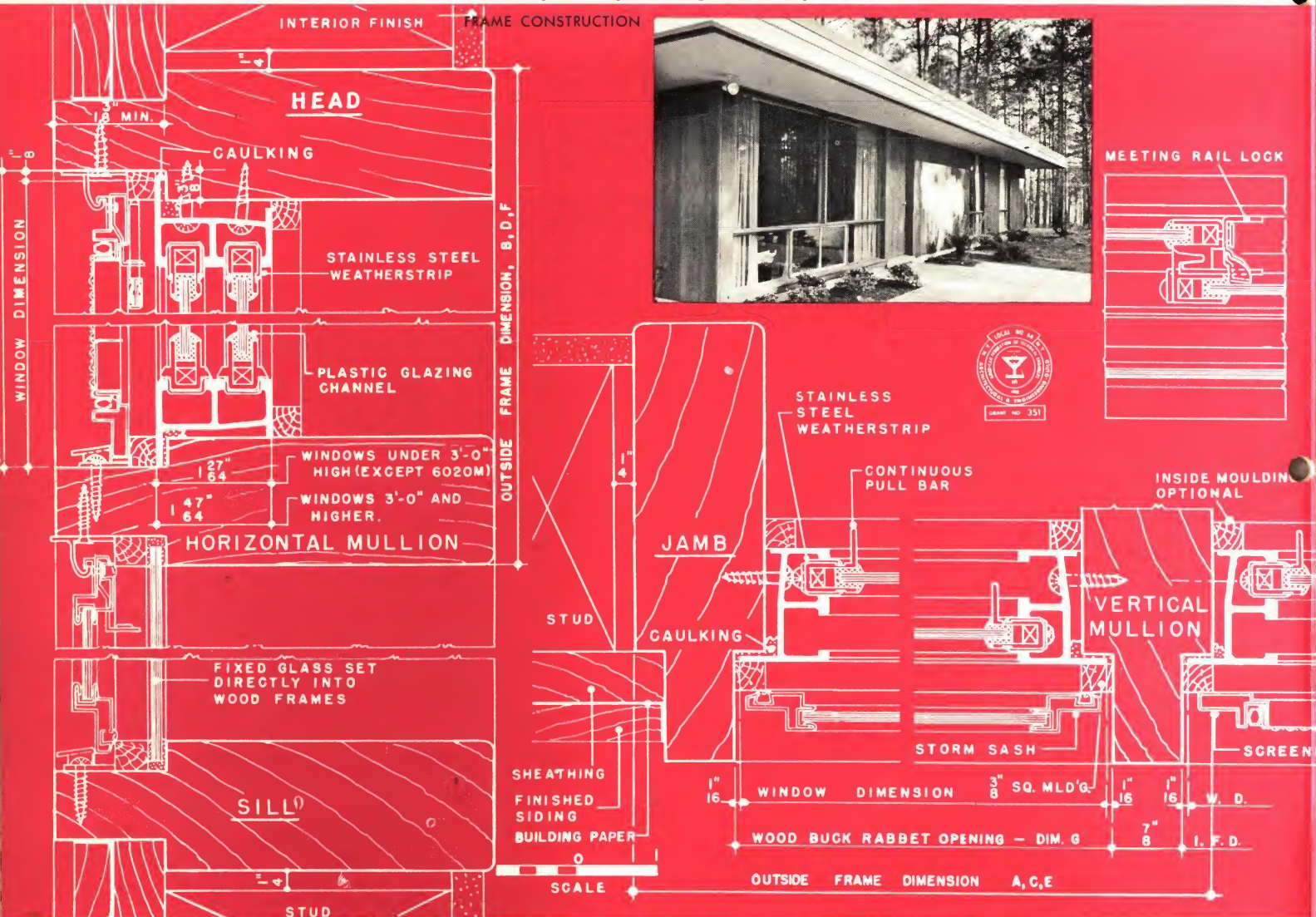


ELEVATION



HORIZONTAL SLIDING WINDOWS WOOD BUCK INSTALLATION

HALF SIZE INSTALLATION DETAILS



HORIZONTAL SLIDING WINDOW SIZE DATA FOR WOOD BUCK INSTALLATION

Nominal Size	Window Area* (Sq. ft.)	Window Dimension		Outside Frame Dimension (Guide to dimension points on page 8)						Wood Buck Rabbit Opening		Window Glass Size		Storm Sash Glass Size	
		Width	Height	A	B	C	D	E	F	G	H	Width	Height	Width	Height
11117-S	2.42	1'-11"	1'-7"	2'-1 5/8"	1'-9 5/8"	4'-1 5/8"	3'-5 5/8"	6'-1 5/8"	5'-1 5/8"	1'-11 1/8"	1'-7 1/8"	10 3/16"	16 3/8"	21 5/8"	17 1/2"
3020-S†	5.17	3'-0 1/8"	2'-0 1/8"	3'-2 3/4"	2'-2 3/4"	6'-3 7/8"	4'-3 7/8"	9'-5"	6'-5"	3'-0 1/4"	2'-0 1/4"	16 3/4"	21 1/2"	34 3/4"	22 5/8"
3921-S†	7.06	3'-9 5/8"	2'-1 5/8"	4'-0 1/4"	2'-4 1/4"	7'-10 7/8"	4'-6 7/8"	11'-9 1/2"	6'-9 1/2"	3'-9 3/4"	2'-1 3/4"	21 1/2"	23"	44 1/4"	24 1/8"
2020-M	3.19	1'-11 5/8"	1'-11 5/8"	2'-2 1/4"	2'-2 1/4"	4'-2 7/8"	4'-2 7/8"	6'-3 1/2"	6'-3 1/2"	1'-11 3/4"	1'-11 3/4"	10 1/2"	21"	22 1/4"	22 1/8"
3020-M	4.97	2'-11 5/8"	1'-11 5/8"	3'-2 1/4"	2'-2 1/4"	6'-2 7/8"	4'-2 7/8"	9'-3 1/2"	6'-3 1/2"	2'-11 3/4"	1'-11 3/4"	16 1/2"	21"	34 1/4"	22 1/8"
3030-M	7.76	2'-11 5/8"	2'-11 5/8"	3'-2 5/8"	3'-2 1/4"	6'-3"	6'-2 7/8"	9'-3 11/16"	—	2'-11 13/16"	2'-11 3/4"	16 9/16"	33"	34 1/4"	34 1/8"
3034-M	8.69	2'-11 5/8"	3'-3 5/8"	3'-2 5/8"	3'-6 1/4"	6'-3"	6'-10 7/8"	9'-3 11/16"	—	2'-11 13/16"	3'-3 3/4"	16 9/16"	37"	34 1/4"	38 1/8"
3420-M	.557	3'-3 5/8"	1'-11 5/8"	3'-6 1/4"	2'-2 1/4"	6'-10 7/8"	4'-2 7/8"	10'-3 1/2"	6'-3 1/2"	3'-3 3/4"	1'-11 3/4"	18 1/2"	21"	38 1/4"	22 1/8"
3434-M	9.73	3'-3 5/8"	3'-3 5/8"	3'-6 5/8"	3'-6 1/4"	6'-11"	6'-10 7/8"	10'-3 11/16"	—	3'-3 13/16"	3'-3 3/4"	18 9/16"	37"	38 1/4"	38 1/8"
4020-M	6.76	3'-11 5/8"	1'-11 5/8"	4'-2 1/4"	2'-2 1/4"	8'-2 7/8"	4'-2 7/8"	12'-3 1/2"	6'-3 1/2"	3'-11 3/4"	1'-11 3/4"	22 1/2"	21"	46 1/4"	22 1/8"
4030-M	10.55	3'-11 5/8"	2'-11 5/8"	4'-2 5/8"	3'-2 1/4"	8'-3"	6'-2 7/8"	12'-3 11/16"	—	3'-11 13/16"	2'-11 3/4"	22 9/16"	33"	46 1/4"	34 1/8"
4034-M	11.81	3'-11 5/8"	3'-3 5/8"	4'-2 5/8"	3'-6 1/4"	8'-3"	6'-10 7/8"	12'-3 11/16"	—	3'-11 13/16"	3'-3 3/4"	22 9/16"	37"	46 1/4"	38 1/8"
4838-M	15.37	4'-7 5/8"	3'-7 5/8"	4'-10 5/8"	3'-10 1/4"	9'-7"	7'-6 7/8"	—	—	4'-7 13/16"	3'-7 3/4"	26 9/16"	41"	54 1/4"	42 1/8"
6020-M	10.33	5'-11 5/8"	1'-11 5/8"	6'-2 5/8"	2'-2 1/4"	12'-3"	4'-2 7/8"	—	6'-3 1/2"	5'-11 13/16"	1'-11 3/4"	34 9/16"	21"	34 1/4"	22 1/8" §
6030-M	16.12	5'-11 5/8"	2'-11 5/8"	6'-2 5/8"	3'-2 1/4"	12'-3"	6'-2 7/8"	—	—	5'-11 13/16"	2'-11 3/4"	34 9/16"	33"	34 1/4"	34 1/8"

S — Standard M — Modular

*Area between stop beads

†Also available for double glazing—see page 11

§Two 3020 Storm Sash

§Two 3030 Storm Sash

Glass Tol.
+ 1/16" — 0"

Glass Tol.
± 1/32"

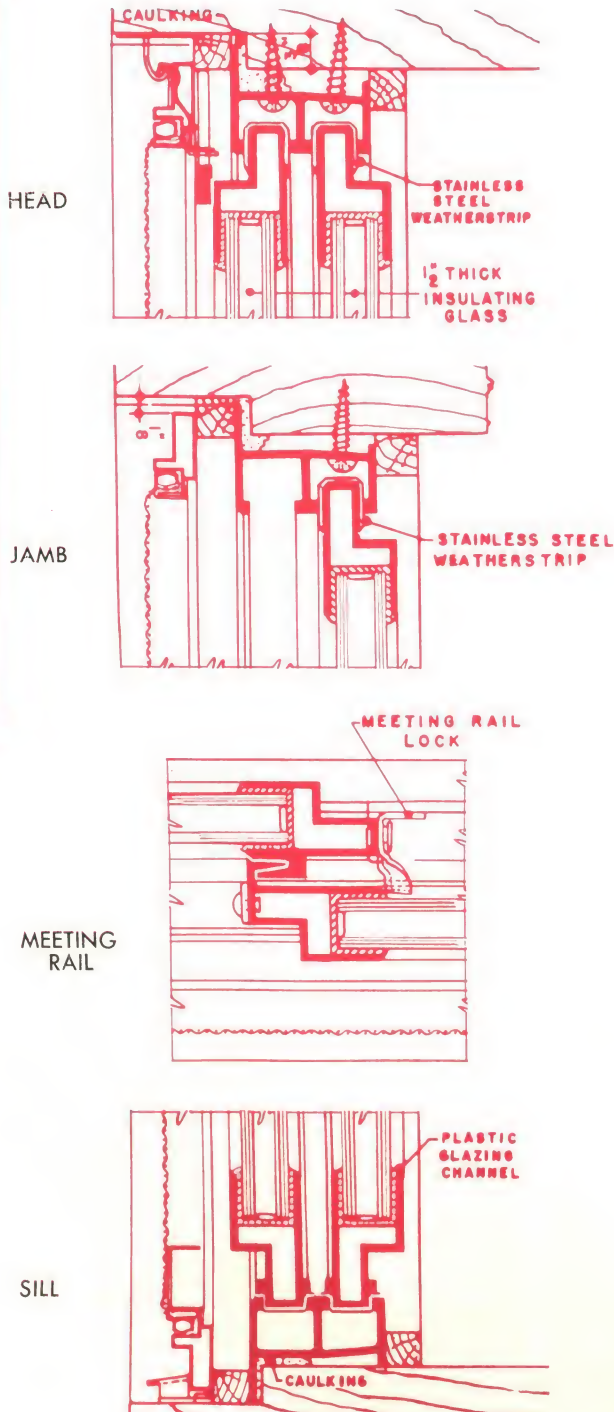
THERMOPANE or TWINDOW GLAZING

STANDARD SIZES

Type	Window Dimension	Rabbit Opening		Window Area	Glass Sizes
		Width	Height		
T3020S	3'-0 1/8" x 2'-0 1/8"	3'-0 1/4"	2'-0 1/4"	5.17 Sq. Ft.	16 1/8" x 20 1/2"
T3921S	3'-9 5/8" x 2'-1 5/8"	3'-9 3/4"	2'-1 3/4"	7.06 " "	20 7/8" x 22"

GLASS TOLERANCE $\pm \frac{1}{16}$ "

HALF SIZE DETAILS



SPECIFICATIONS

General: Horizontal sliding windows on architect's drawings shall be "Alwintite" aluminum sliding windows manufactured by General Bronze Corporation (Alwintite Division), Garden City, New York.

Materials: Frame and sash shall be made from 63S-T5 extruded aluminum alloy having a minimum thickness of .062 inch. Weatherstripping shall be manufactured from stainless steel of .005 inch minimum thickness. The combination weatherstripping and anti-friction sliding contact at the sill shall be manufactured from zinc of .018 inch minimum thickness. Glass settings in the sash shall be manufactured from extruded vinylite.

Construction: Window frame shall be of one-piece construction, corners welded. The sill of the frame shall be designed to facilitate cleaning and be provided with weep holes for draining. Fittings shall be provided for securing frame to adjacent building construction.

Sash shall be designed to slide in guides at sill of frame on combination weatherstrip and anti-friction contact in a manner to prevent contact between aluminum. Sash are to be removable from the frame without the necessity of dismantling frame parts. When sash are closed and locked, it shall be impossible to remove them from frame.

Vertical meeting rails of sash shall be designed with interlocking contacts to insure weather resistance when closed and locked, and a suitable catch is to be provided on the meeting stiles for this purpose. Jamb rails and top rails of sash shall be provided with stainless steel weatherstripping, and bottom rails of sash shall be provided with zinc combination weatherstripping and anti-friction sliding contact.

Sash members shall be designed to receive glass which is to be installed in extruded vinylite. Corners of sash are to be fitted to hair-line joints in a workmanlike manner and be secured by means of corner connections which can be conveniently disassembled to facilitate glazing.

Air Infiltration: Infiltration of air shall not exceed one-half cubic foot per minute per linear foot of sash perimeter during a wind of twenty-five miles per hour. Satisfactory evidence of compliance must be furnished to architect.

Finish: Natural aluminum. After fabrication, surface blemishes, scratches and tool marks are to be removed and exposed surfaces cleaned to a uniform color and texture. Protective coating of transparent lacquer is to be applied before shipment. Lacquer must be such as will withstand the action of lime mortar for a period of at least one month in an atmosphere of 100% relative humidity at room temperature.

Installation: Manufacturer is to furnish detail drawings for installation. Frames may be installed independently of the sash and the glazed sash installed in the frames after plastering has been completed, at option of contractor.

Installation contractor shall apply mastic or caulking compound, install the frames straight, plumb and level, and securely fasten in place. Care must be exercised to prevent twisting of frame or springing it to cause tracks to get out of alignment. After installation, adjustments are to be made, if necessary, to insure efficient operation.

Glazing: Sash will be shipped knocked-down for assembly at time of glazing. Glazing in vinylite settings and assembly of sash is to be done on the bench. (Specify whether single or double strength glass is desired.) Glazed sash are to be inserted in frames when so directed by the contractor.

OPTIONAL

FIN-TRIM

The foregoing specification describes the basic sliding windows for installation in wood bucks. If it should be desired to eliminate the wood bucks, the windows are to be furnished with a combination integral fin and trim of extruded aluminum of .050 inch minimum thickness at the jambs, head and sill.

SCREENS AND STORM SASH

The horizontal sliding windows shall be equipped with "ALWINTITE" aluminum screens and storm sash.

Large fixed glass plus ventilating sliding sash aluminum PICTURE-SLIDING WINDOW



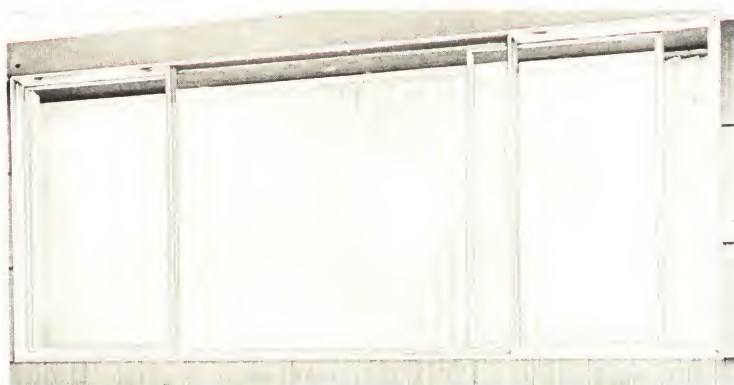
Panorama view with minimum amount of metal to hinder vision.

ideal for

- LIVING ROOMS
- BEDROOMS
- DINING ROOMS
- DENS or TV ROOMS
- KITCHENS

in low-cost or custom-built homes!

Sliding sash glide smoothly in front of picture window unit for full ventilation.



EASY INSTALLATION!

The ALWINTITE Picture Sliding Window units with integral Fin-Trim are easy to install. Just set in rough opening and nail home. Exterior siding comes right up to fin.



HALF SIZE DETAILS

SECTION THROUGH SLIDING SASH



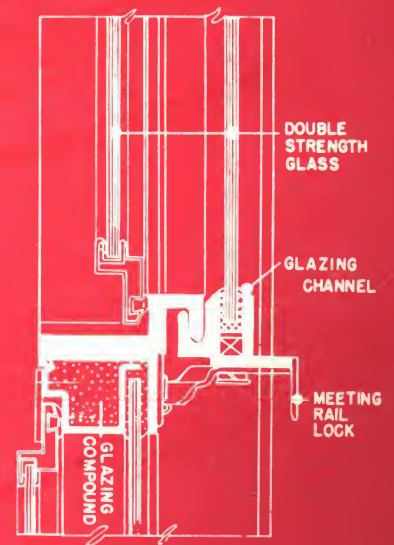
HEAD

SECTION THROUGH FIXED SASH

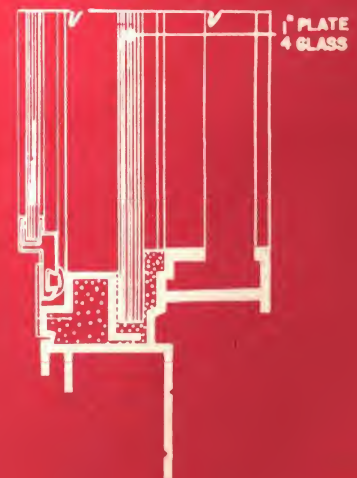


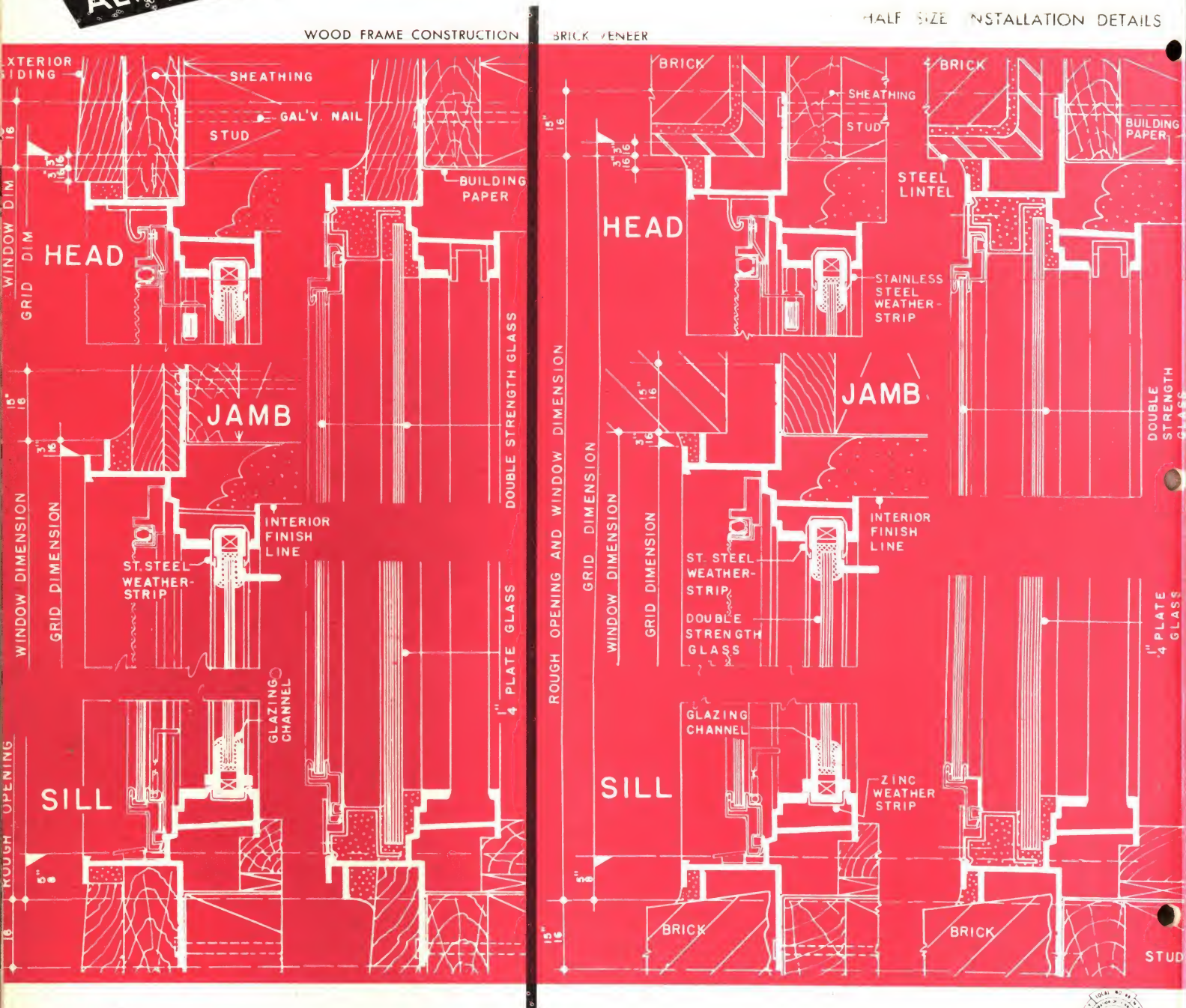
JAMB

MEETING RAIL



SILL



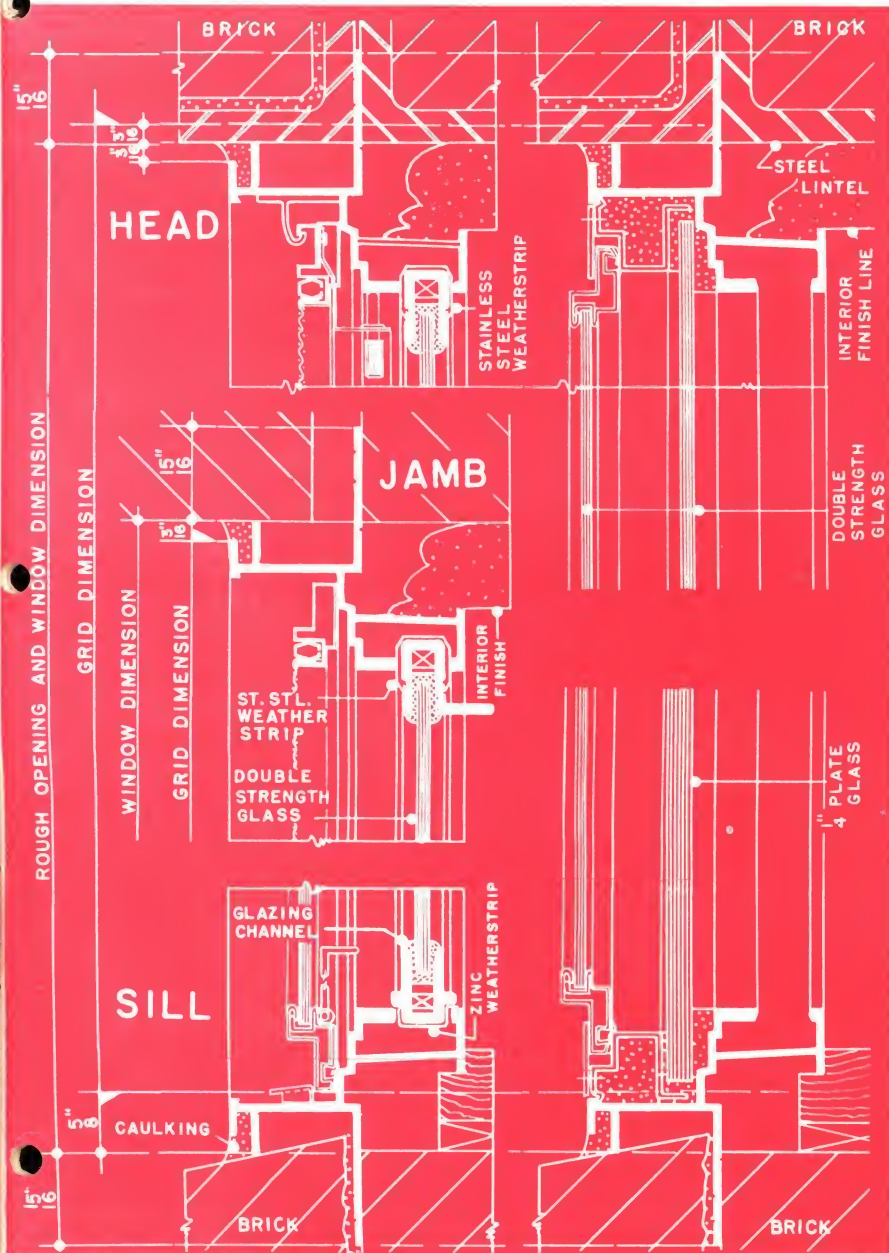


PICTURE SLIDE WINDOW & STORM SASH SIZE DATA

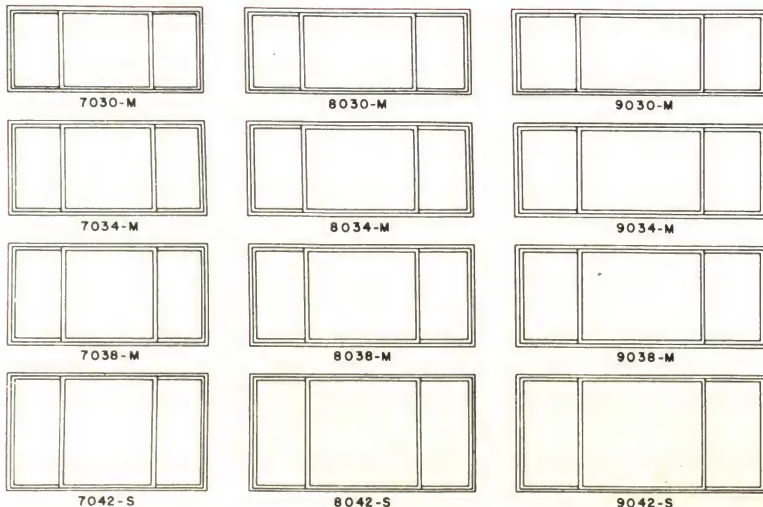
Unit No.	Window Ventilating		Window Dim. & Rough Opening	Sash Glass Size	Fixed Glass Size	Storm Sash Glass Size	
	Area (Sq. Ft.)	Area (Sq. Ft.)				Vent	Fixed
7030-M	17.71	8.78	7'-0 $\frac{3}{8}$ " x 3'-0 $\frac{7}{16}$ "	20" x 33"	40" x 35"	19 $\frac{3}{4}$ " x 33 $\frac{3}{4}$ "	38 $\frac{1}{4}$ " x 33 $\frac{1}{4}$ "
7034-M	19.87	9.83	7'-0 $\frac{3}{8}$ " x 3'-4 $\frac{1}{16}$ "	20" x 37"	40" x 39"	19 $\frac{3}{4}$ " x 37 $\frac{3}{4}$ "	38 $\frac{1}{4}$ " x 37 $\frac{1}{4}$ "
7038-M	22.02	10.88	7'-0 $\frac{3}{8}$ " x 3'-8 $\frac{1}{16}$ "	20" x 41"	40" x 43"	19 $\frac{3}{4}$ " x 41 $\frac{3}{4}$ "	38 $\frac{1}{4}$ " x 41 $\frac{1}{4}$ "
7042-S	25.25	12.45	7'-0 $\frac{3}{8}$ " x 4'-2 $\frac{1}{16}$ "	20" x 47"	40" x 49"	19 $\frac{3}{4}$ " x 47 $\frac{3}{4}$ "	38 $\frac{1}{4}$ " x 47 $\frac{1}{4}$ "
8030-M	20.45	10.17	8'-0 $\frac{3}{8}$ " x 3'-0 $\frac{7}{16}$ "	23" x 33"	46" x 35"	22 $\frac{3}{4}$ " x 33 $\frac{3}{4}$ "	44 $\frac{1}{4}$ " x 33 $\frac{1}{4}$ "
8034-M	22.94	11.39	8'-0 $\frac{3}{8}$ " x 3'-4 $\frac{1}{16}$ "	23" x 37"	46" x 39"	22 $\frac{3}{4}$ " x 37 $\frac{3}{4}$ "	44 $\frac{1}{4}$ " x 37 $\frac{1}{4}$ "
8038-M	25.43	12.60	8'-0 $\frac{3}{8}$ " x 3'-8 $\frac{1}{16}$ "	23" x 41"	46" x 43"	22 $\frac{3}{4}$ " x 41 $\frac{3}{4}$ "	44 $\frac{1}{4}$ " x 41 $\frac{1}{4}$ "
8042-S	29.16	14.43	8'-0 $\frac{3}{8}$ " x 4'-2 $\frac{1}{16}$ "	23" x 47"	46" x 49"	22 $\frac{3}{4}$ " x 47 $\frac{3}{4}$ "	44 $\frac{1}{4}$ " x 47 $\frac{1}{4}$ "
9030-M	23.19	11.56	9'-0 $\frac{3}{8}$ " x 3'-0 $\frac{7}{16}$ "	26" x 33"	52" x 35"	25 $\frac{3}{4}$ " x 33 $\frac{3}{4}$ "	50 $\frac{1}{4}$ " x 33 $\frac{1}{4}$ "
9034-M	26.01	13.95	9'-0 $\frac{3}{8}$ " x 3'-4 $\frac{1}{16}$ "	26" x 37"	52" x 39"	25 $\frac{3}{4}$ " x 37 $\frac{3}{4}$ "	50 $\frac{1}{4}$ " x 37 $\frac{1}{4}$ "
9038-M	28.84	14.23	9'-0 $\frac{3}{8}$ " x 3'-8 $\frac{1}{16}$ "	26" x 41"	52" x 43"	25 $\frac{3}{4}$ " x 41 $\frac{3}{4}$ "	50 $\frac{1}{4}$ " x 41 $\frac{1}{4}$ "
9042-S	33.07	16.40	9'-0 $\frac{3}{8}$ " x 4'-2 $\frac{1}{16}$ "	26" x 47"	52" x 49"	25 $\frac{3}{4}$ " x 47 $\frac{3}{4}$ "	50 $\frac{1}{4}$ " x 47 $\frac{1}{4}$ "
				Tolerance + $\frac{1}{16}$ " -0"	Tolerance + $\frac{3}{16}$ " - $\frac{1}{16}$ "	Tolerance +1/32" -1/32"	
				Double Strength Glass	1/4" Plate Glass	Double Strength Glass	



SOLID BRICK



UNIT TYPES



SPECIFICATIONS

General: Picture-sliding windows shall be as manufactured by the General Bronze Corporation (ALWINTITE Division) Garden City, New York. Windows shall consist of a fixed unit at center of opening with a horizontal sliding unit adjacent to it on each side. Sliding units when operated for ventilation are to move on inside of fixed unit.

Materials: Frame and sash, (excluding integral fin trim) shall be manufactured from 63S-T5 extruded aluminum alloy of .062 inch minimum thickness. Weatherstripping of sliding sash shall be of stainless steel of .005 inch minimum thickness. Combination weatherstripping and anti-friction sliding contact at sill of sliding sash shall be manufactured from zinc of 0.18 minimum thickness. Glass settings in the sliding sash shall be manufactured from extruded vinylite. Assembly or installation screws shall be of stainless steel.

Construction: Window frame and integral fin trim shall be of one piece construction. Mullions between sliding and fixed units shall also be of one piece construction. Frame corners and mullion engagements with head and sill of frame shall be made with mechanical joints secured with screws. Sill of frame shall be designed to facilitate cleaning. Weep holes to drain sash guides shall be provided at sliding units. Fittings shall be provided for securing frame to adjacent building construction.

Sash shall be designed to slide in guides at sill of frame on the combination weatherstrip and anti-friction contact in a manner that will prevent contact between aluminum. Sliding sash are to be removable from frame without necessity of dismantling parts of frame. When sliding sash are closed and locked, it shall be impossible to remove them from frame.

Mullions of fixed unit and adjacent meeting rails of sliding unit shall be designed with interlocking contacts to insure weather resistance when closed and locked. Suitable catch is to be provided for this purpose. Jamb rails and top rails of sliding sash shall be provided with stainless steel weatherstripping and bottom rails of sliding sash shall be provided with zinc combination weatherstripping and anti-friction sliding contact.

Sliding sash corners are to be fitted to hairline joints in a workmanlike manner and be secured by corner connections which can be conveniently disassembled to facilitate glazing.

Air Infiltration: Air infiltration shall not exceed one-half cubic foot per minute per linear foot of opening sash perimeter during a wind of twenty-five miles per hour velocity. Satisfactory evidence of compliance must be furnished to architect.

Finish: Windows are to be finished in natural aluminum color. After fabrication, surface blemishes, scratches and tool marks are to be removed. Exposed surfaces are to be cleaned to uniform color and texture. A protective coating of transparent lacquer is to be applied to windows before delivery. The lacquer must be such as will withstand action of lime mortar for a period of at least one month in an atmosphere of 100% relative humidity at room temperature.

Installation: Manufacturer is to furnish detail drawings for window installation. Frames of windows including fixed units may be installed independently of sliding units. Glazed sliding sash may be installed in frames after plastering has been completed, at contractor's option.

Contractor shall apply mastic or caulking compound, install frames straight, plumb and level, and securely fasten them in place. Care must be exercised to prevent twisting of frame or springing it in a manner that would cause misalignment of tracks. After installation, windows are to be adjusted if necessary to insure efficient operation.

Glazing: Sliding sash will be shipped knocked down for assembly at time of glazing. Sash are to be glazed on the bench with double strength glass in vinylite settings furnished by manufacturer. Fixed unit shall be glazed with double strength glass (or one quarter inch thick plate glass) installed with spring clips furnished by manufacturer and set in aluminum colored metal sash glazing compound.

OPTIONAL

PICTURE-SLIDING WINDOW WITHOUT FIN TRIM

Windows shall be furnished without integral fin-trim (reference to fin-trim should be deleted from specifications).

SNAP-ON GLAZING BEADS

Fixed light unit is to have extruded aluminum snap-on glazing beads to cover glazing compound.

SCREENS AND STORM SASH

Sliding units shall be equipped with ALWINTITE aluminum screens. Sliding and fixed units shall be equipped with ALWINTITE aluminum storm sash.

Double Hung

*Universally
Accepted!*

Luxury Homes
Apartments, Institutions
Low-Cost Homes

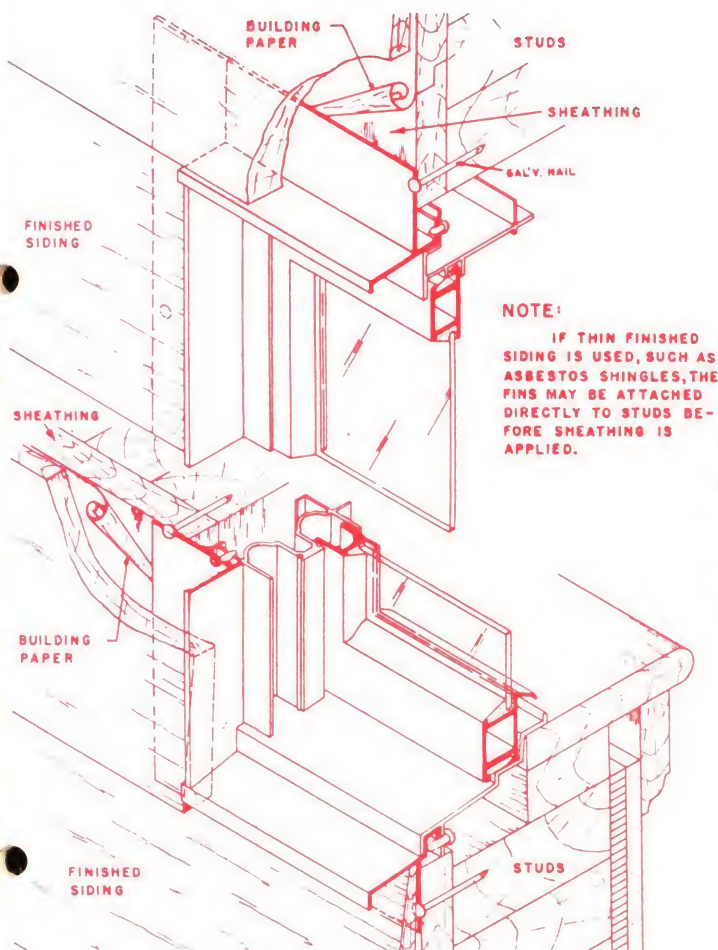
- *Conventional*
- *Traditional*
- *Thirty-five sizes*
- *Eight different types*



Windows

...with FIN-TRIM

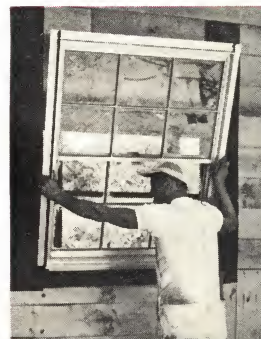
*saves time and labor
...makes installation
a matter of seconds*



Ready!



Set!



Installed!



When you order ALWINTITE windows with the new FIN-TRIM combination there are no accessories to bother with, no special sills, no exterior wood trim or casing to buy or apply. You won't have to paint around the outside of the windows, no matter what kind of siding you use. You get a window that's flashed all-around, one that gives you 100% weathertight installation.

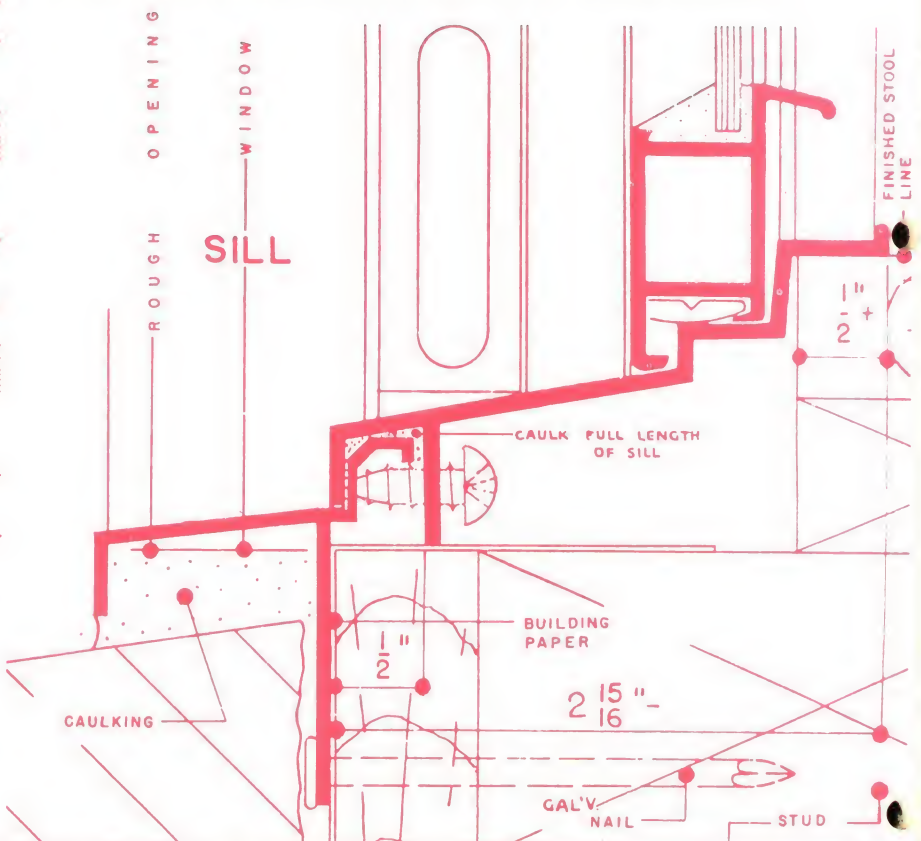
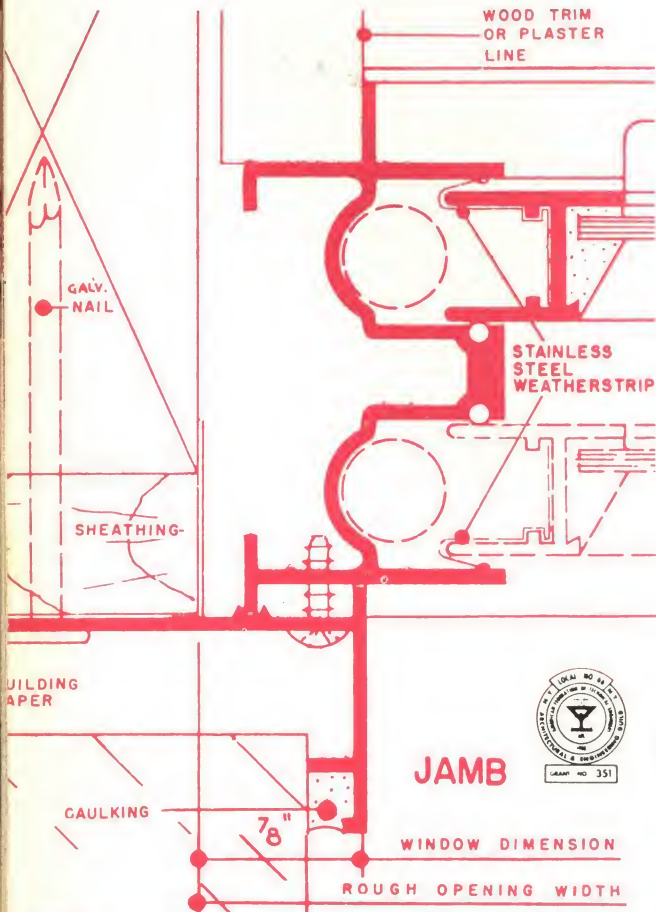
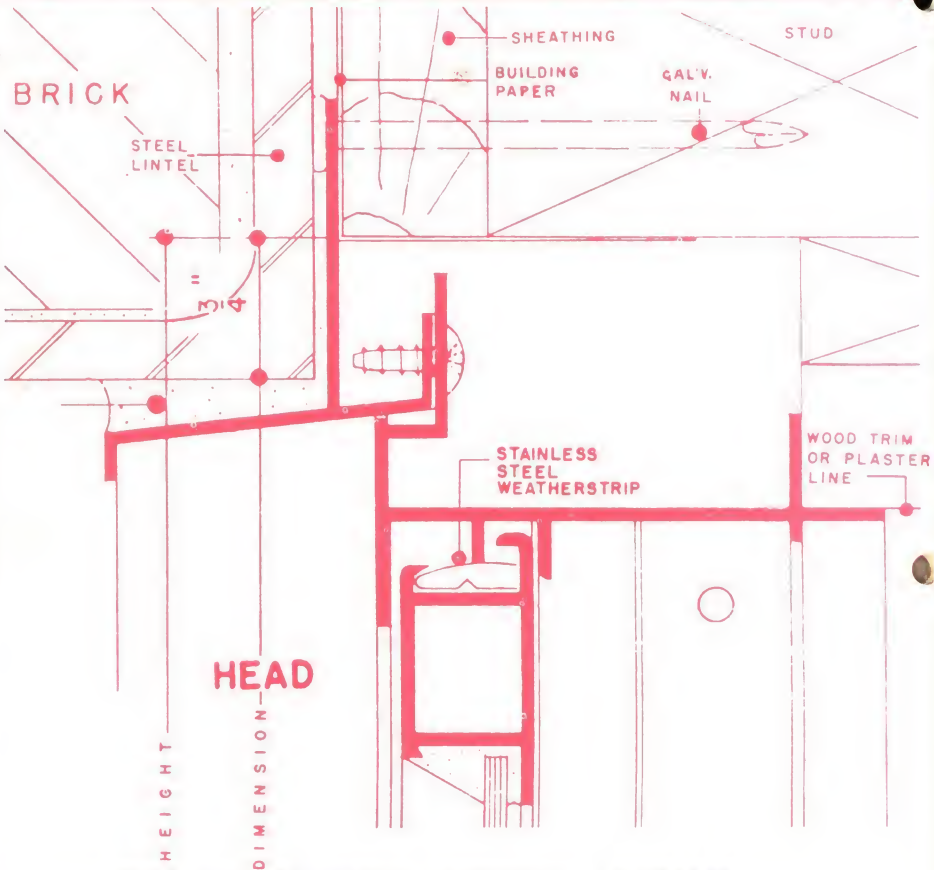
ALWINTITE windows are delivered on the job completely assembled and adjusted, ready for quick, easy installation. Hardware, balances and built-in stainless steel weatherstripping are all included. There's nothing extra to buy or install.

And, of course, with ALWINTITE you get a window that's long on economy, beauty and built-in quality—one that appeals to every prospective home buyer. They meet all F.H.A. requirements.

FULL SIZE DETAILS

WINDOW TYPES

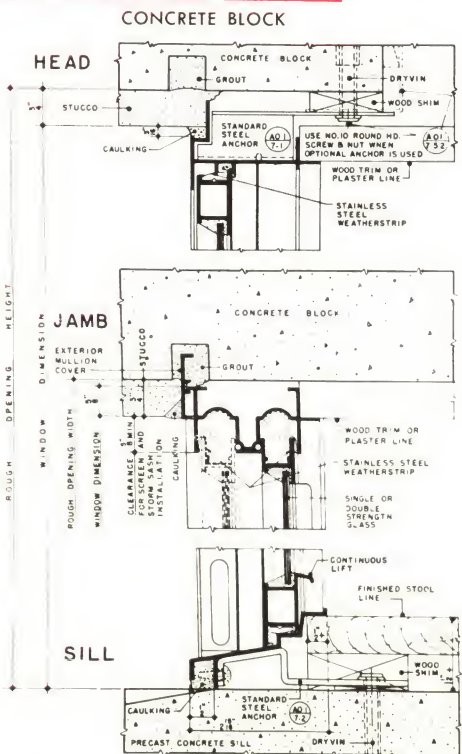
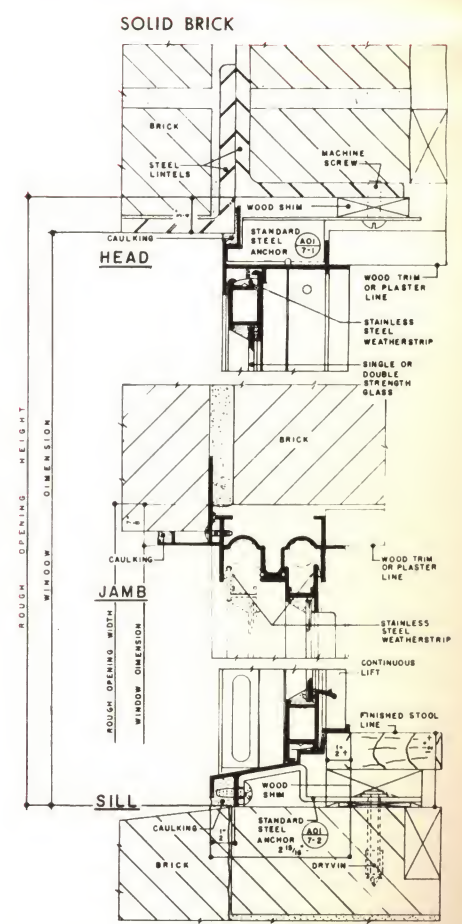
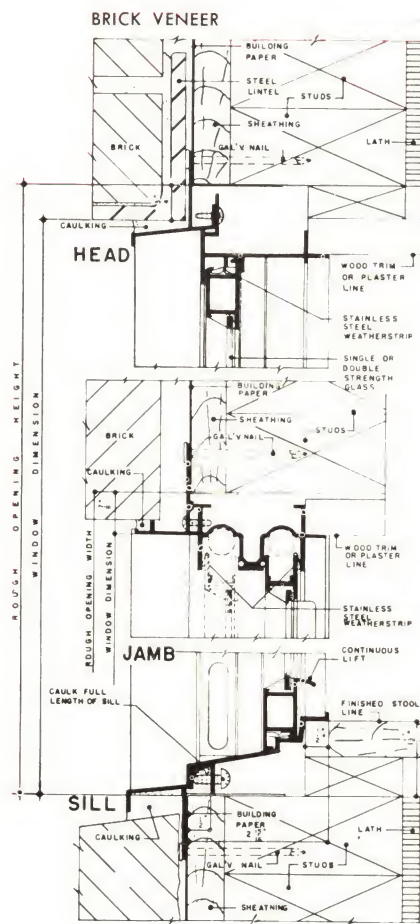
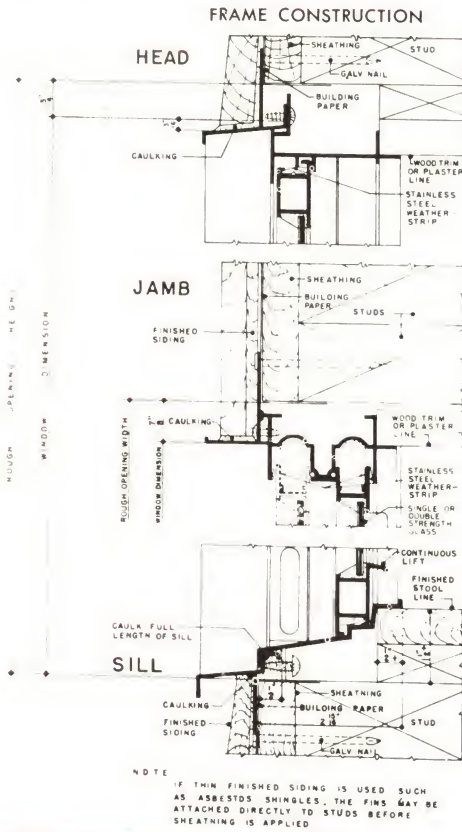
WINDOW DIMENSION	2'-0"	2'-4"	2'-8"	3'-0"	3'-4"
SIZES					
TYPES					
A ALL UNITS	2024	2424	2824	3024	3424
A-2 ALL 2'-0" WIDE UNITS	2030	2430	2830	3030	3430
A-3 ALL 2'-0" WIDE UNITS	2034	2434	2834	3034	3434
B 2'-4" TO 3'-0" WIDE UNITS	2040	2440	2840	3040	3440
C 2'-4" TO 3'-0" WIDE UNITS	2048	2448	2848	3048	3448
D ALL UNITS	2050	2450	2850	3050	3450
E ALL 3'-4" WIDE UNITS	2054	2454	2854	3054	3454



ALWINTITE DOUBLE HUNG WINDOWS WITH FIN-TRIM



INSTALLATION DETAILS — SCALE 3"=1'0"



ROUGH OPENING SIZES IN FRAME, BRICK VENEER AND SOLID BRICK CONSTRUCTION

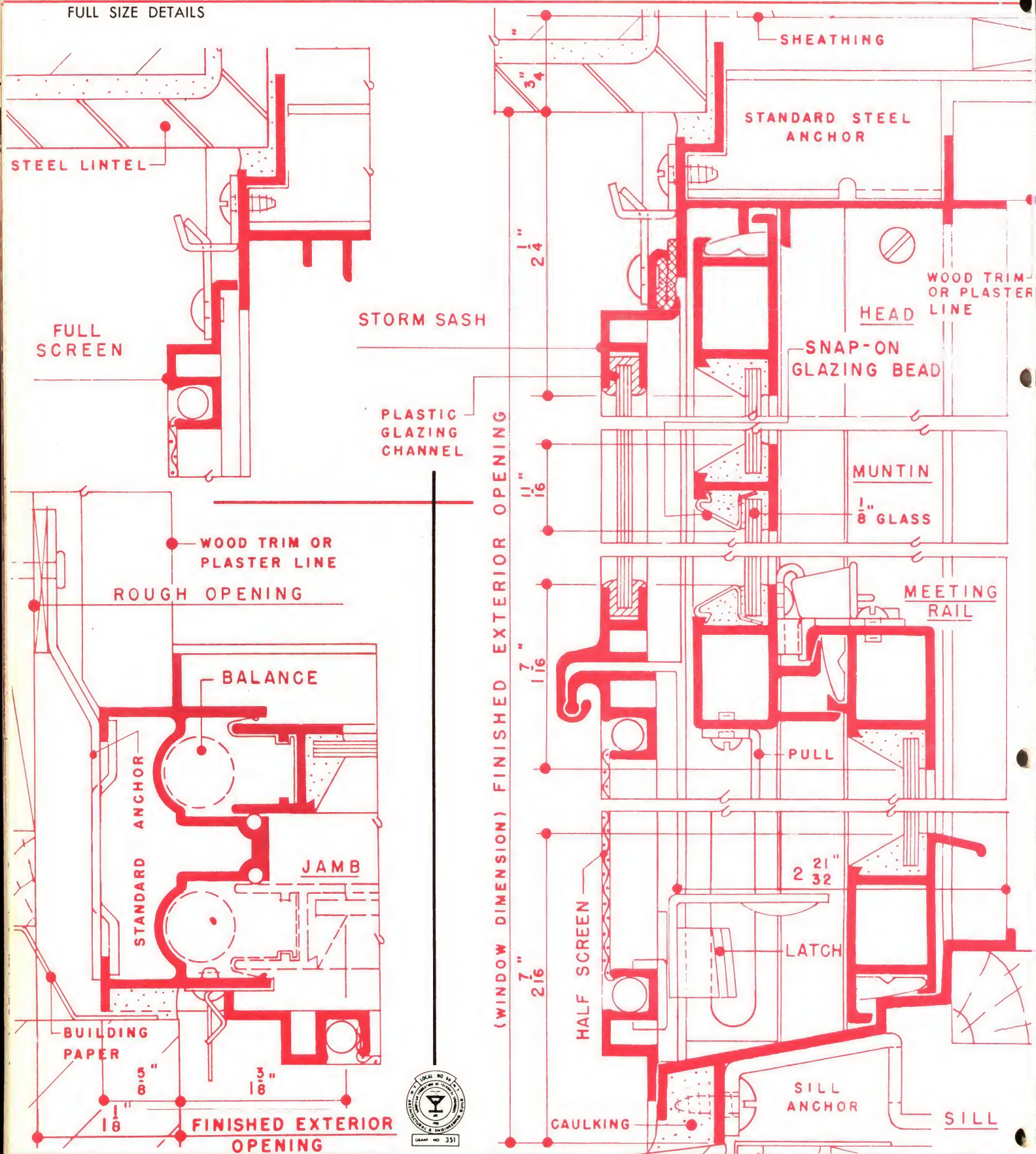
WINDOW NUMBER	SINGLE WIDTH	DOUBLE WIDTH	TRIPLE WIDTH	QUADRUPLE WIDTH	QUINTUPLE WIDTH	HEIGHT
2024						2'-4 1/4"
2030						3'-0 3/4"
2034						3'-4 3/4"
2040	2'-1 1/4"	4'-3"	6'-4 1/4"	8'-5 1/2"	10'-6 3/4"	4'-0 3/4"
2048						4'-8 3/4"
2050						5'-0 3/4"
2054						5'-4 3/4"
2424						2'-4 3/4"
2430						3'-0 3/4"
2434						3'-4 3/4"
2440	2'-5 3/4"	4'-11"	7'-4 1/4"	9'-9 1/2"	12'-2 3/4"	4'-0 3/4"
2448						4'-8 3/4"
2450						5'-0 3/4"
2454						5'-4 3/4"
2824						2'-4 3/4"
2830						3'-0 3/4"
2834						3'-4 3/4"
2840	2'-9 3/4"	5'-7"	8'-4 1/4"	11'-1 1/2"	13'-10 3/4"	4'-0 3/4"
2848						4'-8 3/4"
2850						5'-0 3/4"
2854						5'-4 3/4"
3024						2'-4 3/4"
3030						3'-0 3/4"
3034						3'-4 3/4"
3040	3'-1 1/4"	6'-3"	9'-4 1/4"	12'-5 1/4"	15'-6 3/4"	4'-0 3/4"
3048						4'-8 3/4"
3050						5'-0 3/4"
3054						5'-4 3/4"
3424						2'-4 3/4"
3430						3'-0 3/4"
3434						3'-4 3/4"
3440	3'-5 3/4"	6'-11"	10'-4 1/4"	13'-9 1/2"	17'-2 3/4"	4'-0 3/4"
3448						4'-8 3/4"
3450						5'-0 3/4"
3454						5'-4 3/4"



ROUGH OPENING DIMENSIONS

Height: Add 3/4" to window dimension height.
Width: Add 1 3/4" to window dimension width.
For Mullions: Add 1 1/4" for width of each mullion.

FULL SIZE DETAILS

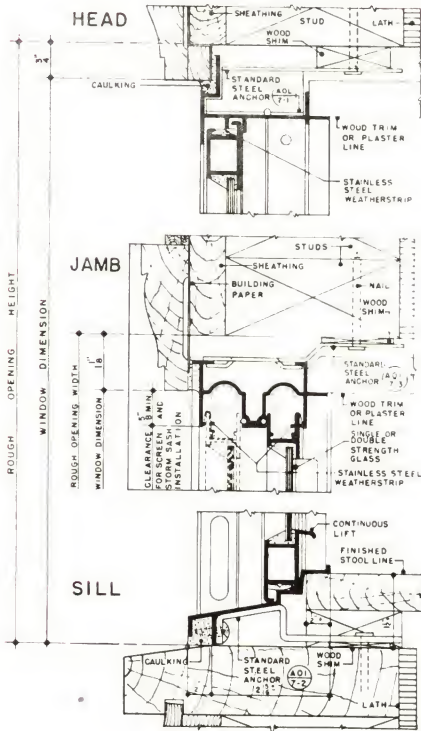


ALWINTITE DOUBLE HUNG WINDOWS WITHOUT FIN-TRIM

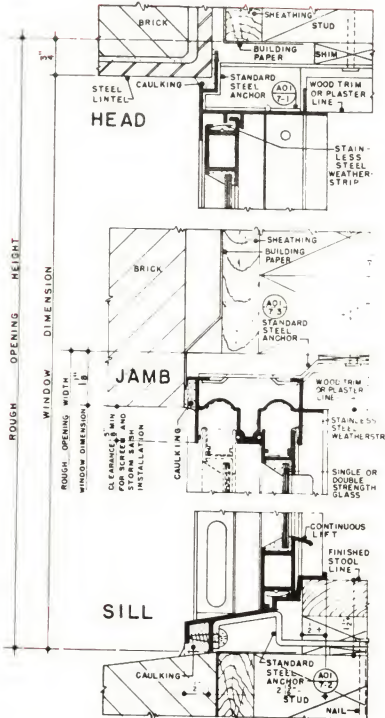
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1

INSTALLATION DETAILS — SCALE 3"=1'-0"

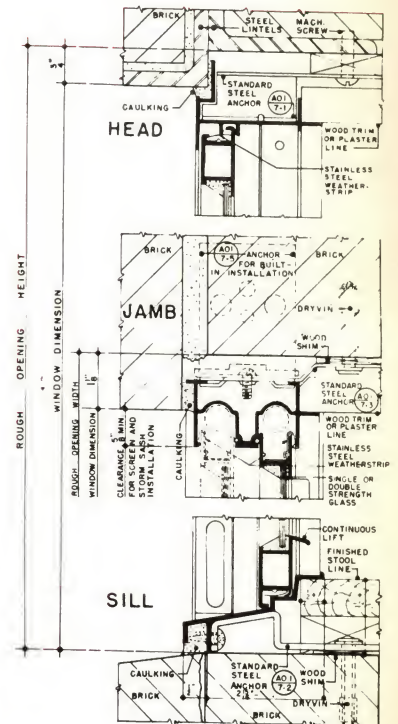
FRAME CONSTRUCTION



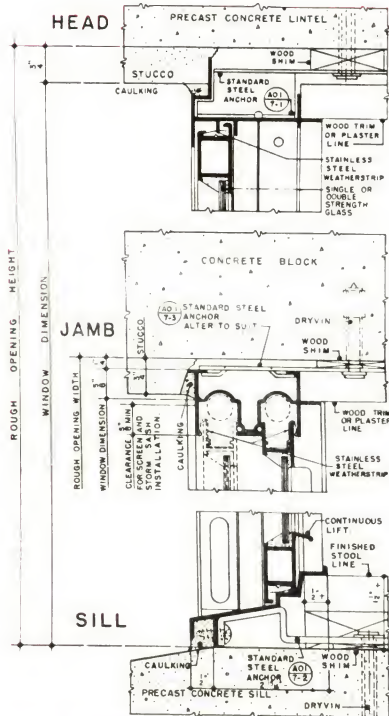
BRICK VENEER



SOLID BRICK



CONCRETE BLOCK



ROUGH OPENING SIZES IN FRAME, BRICK VENEER AND SOLID BRICK CONSTRUCTION

WINDOW NUMBER	SINGLE WIDTH	DOUBLE WIDTH	TRIPLE WIDTH	QUADRUPLE WIDTH	QUINTUPLE WIDTH	HEIGHT
2024						2'-4"
2030						3'-0"
2034						3'-4"
2040	2'-2 1/4"	4'-3 1/2"	6'-4 1/4"	8'-6"	10'-7 1/4"	4'-0"
2048						4'-8"
2050						5'-0"
2054						5'-4"
2424						2'-4"
2430						3'-0"
2434						3'-4"
2440	2'-6 1/4"	4'-11 1/2"	7'-4 1/4"	9'-10"	12'-3 3/4"	4'-0"
2448						4'-8"
2450						5'-0"
2454						5'-4"
2824						2'-4"
2830						3'-0"
2834						3'-4"
2840	2'-10 1/4"	5'-7 1/2"	8'-4 1/4"	11'-2"	13'-11 1/4"	4'-0"
2848						4'-8"
2850						5'-0"
2854						5'-4"
3024						2'-4"
3030						3'-0"
3034						3'-4"
3040	3'-2 1/4"	6'-3 1/2"	9'-4 1/4"	12'-6"	15'-7 1/4"	4'-0"
3048						4'-8"
3050						5'-0"
3054						5'-4"
3424						2'-4"
3430						3'-0"
3434						3'-4"
3440	3'-6 1/4"	6'-11 1/2"	10'-4 1/4"	13'-10"	17'-3 3/4"	4'-0"
3448						4'-8"
3450						5'-0"
3454						5'-4"

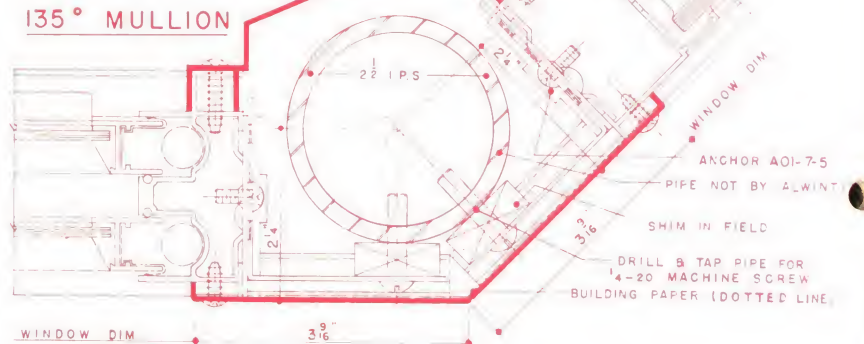
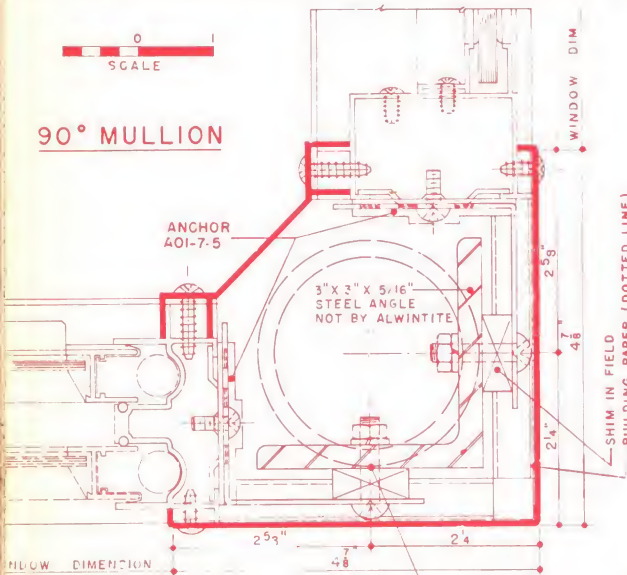
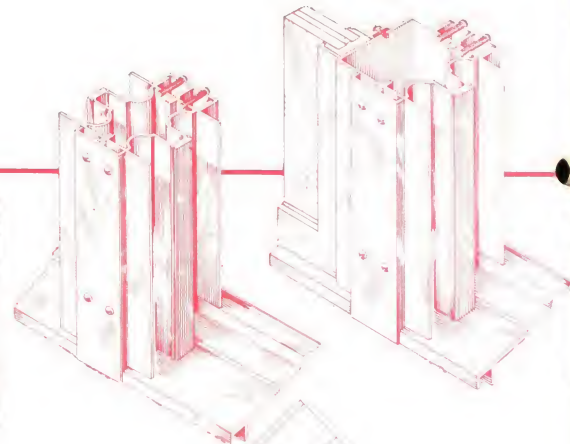
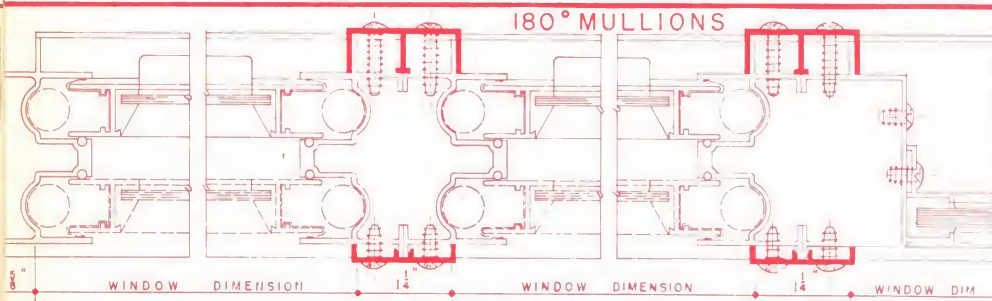
ROUGH OPENING DIMENSIONS

Height: Add 3/4" to window dimension height.
Width: Add 1 1/2" to window dimension width.
For Mullions: Add 1 1/4" for width of each mullion.

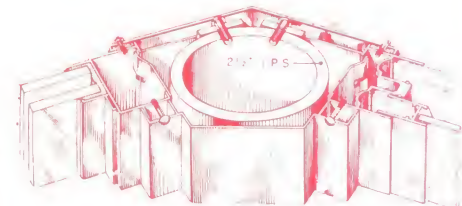
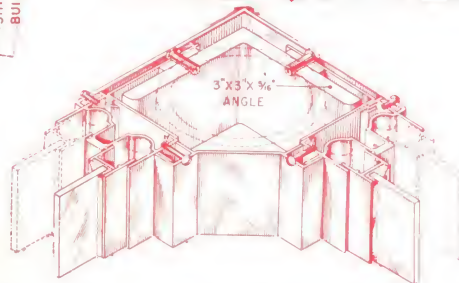


DOUBLE HUNG WINDOWS

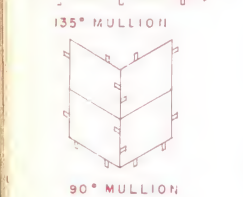
MULLION DETAILS



NOTE: FOR A 90° MULLION CONDITION USING STRUCTURAL ANGLE, ANGLE TO BE DRILLED IN FIELD WITH CLEAR HOLE FOR 1/4-20 MACHINE SCREW AND NUT, LOCK WASHER.



ANCHOR DIAGRAM



90° MULLION

WINDOW AREAS and GLASS SIZES for ALWINTITE DOUBLE-HUNG WINDOWS and STORM SASH

NOTE: Upper and lower sash of double-hung windows have same glass sizes • Upper and lower sash of storm sash have different glass sizes

Sizes	Window Area*	1 Light Sash	2 Light Sash	4 Light Sash	6 Light Sash	8 Light Sash	Upper Storm Sash	Lower Storm Sash
2024	3.91 sq. ft.	11 5/16"	5 1/2"	5 1/2"	—	—	24 1/4"	(One Piece Sash)
2030	5.17 "	15 5/16"	7 1/2"	7 1/2"	—	—	15 5/16"	16"
2034	5.79 "	17 5/16"	8 1/2"	8 1/2"	—	—	17 5/16"	18"
2040	7.05 "	21 5/8" x	21 5/8" x	10 5/8" x	—	—	21 5/16"	22"
2048	8.31 "	25 5/16"	12 1/2"	12 1/2"	—	—	25 5/16"	26"
2050	8.93 "	27 5/16"	13 1/2"	13 1/2"	—	—	27 5/16"	28"
2054	9.55 "	29 5/16"	14 1/2"	14 1/2"	—	—	29 5/16"	30"
2424	4.61 "	11 5/16"	5 1/2"	—	5 1/2"	—	24 1/4"	(One Piece Sash)
2430	6.08 "	15 5/16"	7 1/2"	—	7 1/2"	—	15 5/16"	16"
2434	6.81 "	17 5/16"	8 1/2"	—	8 1/2"	—	17 5/16"	18"
2440	8.29 "	21 5/16"	10 1/2"	—	10 1/2"	—	21 5/16"	22"
2448	9.77 "	25 5/16"	12 1/2"	—	12 1/2"	—	25 5/16"	26"
2450	10.50 "	27 5/16"	13 1/2"	—	13 1/2"	—	27 5/16"	28"
2454	11.23 "	29 5/16"	14 1/2"	—	14 1/2"	—	29 5/16"	30"
2824	5.31 "	11 5/16"	5 1/2"	—	5 1/2"	—	24 1/4"	(One Piece Sash)
2830	7.00 "	15 5/16"	7 1/2"	—	7 1/2"	—	15 5/16"	16"
2834	7.82 "	17 5/16"	8 1/2"	—	8 1/2"	—	17 5/16"	18"
2840	9.52 "	21 5/16"	10 1/2"	—	10 1/2"	—	21 5/16"	22"
2848	11.23 "	25 5/16"	12 1/2"	—	12 1/2"	—	25 5/16"	26"
2850	12.06 "	27 5/16"	13 1/2"	—	13 1/2"	—	27 5/16"	28"
2854	12.90 "	29 5/16"	14 1/2"	—	14 1/2"	—	29 5/16"	30"
3024	6.01 "	11 5/16"	5 1/2"	—	5 1/2"	—	24 1/4"	(One Piece Sash)
3030	7.92 "	15 5/16"	7 1/2"	—	7 1/2"	—	15 5/16"	16"
3034	8.87 "	17 5/16"	8 1/2"	—	8 1/2"	—	17 5/16"	18"
3040	10.80 "	21 5/16"	10 1/2"	—	10 1/2"	—	21 5/16"	22"
3048	12.73 "	25 5/16"	12 1/2"	—	12 1/2"	—	25 5/16"	26"
3050	13.68 "	27 5/16"	13 1/2"	—	13 1/2"	—	27 5/16"	28"
3054	14.63 "	29 5/16"	14 1/2"	—	14 1/2"	—	29 5/16"	30"
3424	6.70 "	11 5/16"	5 1/2"	—	5 1/2"	—	24 1/4"	(One Piece Sash)
3430	8.84 "	15 5/16"	7 1/2"	—	7 1/2"	—	15 5/16"	16"
3434	9.89 "	17 5/16"	8 1/2"	—	8 1/2"	—	17 5/16"	18"
3440	12.04 "	21 5/16"	10 1/2"	—	10 1/2"	—	21 5/16"	22"
3448	14.19 "	25 5/16"	12 1/2"	—	12 1/2"	—	25 5/16"	26"
3450	15.25 "	27 5/16"	13 1/2"	—	13 1/2"	—	27 5/16"	28"
3454	16.31 "	29 5/16"	14 1/2"	—	14 1/2"	—	29 5/16"	30"

*Area between stop beads

Glass Tolerance + 1/16" - 0

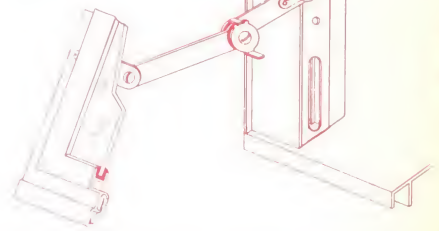
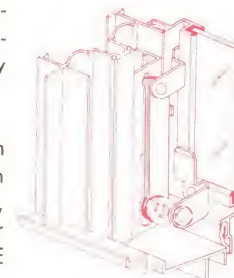
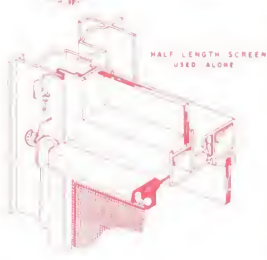
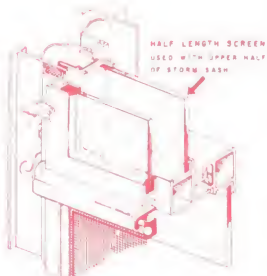
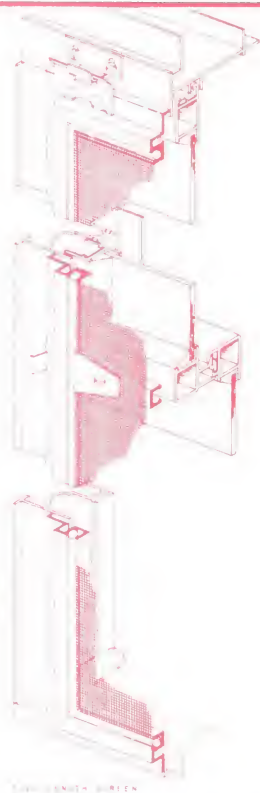
STORM SASH AND SCREENS

ALWINTITE Double-Hung Windows are supplied with all the necessary hardware for attaching screen and storm sash and fittings.

Storm Sash are available in two sections (upper and lower units) to fit all sizes of ALWINTITE Double-Hung Windows. Stay bars enable easy adjustment for ventilation.

ALWINTITE Screens with ALCLAD aluminum wire mesh are available in full length, and half length sections for all sizes of ALWINTITE Double-Hung Windows.

The half screen is interchangeable with the lower section of the storm sash so that the home owner may use these as a combination unit. This arrangement permits complete air circulation under all weather conditions.



SPECIFICATIONS

General: The double-hung windows shall be "Alwintite" aluminum series DHA-O, as manufactured by General Bronze Corporation (Alwintite Division), Garden City, N. Y. Windows are to be fitted and assembled with weatherstripping and hardware, ready for installation and glazing as hereinafter specified.

Materials: Windows shall be of 63S-T5 extruded aluminum alloy having a minimum thickness of .062 inch; except the sill which is to be of .080 inch minimum thickness. Window members shall conform to the strength requirements of the Aluminum Window Manufacturers Association.

Construction: Frame and sash member joints shall be neatly fitted to a hairline, securely connected, and absolutely weather-tight. Muntin bars if required shall be firmly secured at intersections and to abutting sash members. Sash to be designed for outside glazing. Keyways to receive and retain glazing clips and glazing compound are to be extruded integral with sash members and muntins. Mullions to be furnished as required.

Hardware: Window shall have four adjustable sash balances; continuous lift extruded integral with bottom rail of lower sash; pull down handle on underside of upper sash; stainless steel locking device; bumpers as required for upper and lower sash; glazing clips, and steel anchors coated with insulating paint.

Weatherstripping: Each sash to have stainless steel weatherstripping around its entire perimeter. Weatherstripping to be retained in keyways extruded integral with window members to permit convenient replacement.

Air Infiltration: Infiltration of air shall not exceed one-half cubic foot per minute per linear foot of sash perimeter during wind of twenty-five miles per hour velocity. Satisfactory evidence of compliance must be furnished.

Finish: Natural aluminum color. After fabrication, surface blemishes, scratches and tool marks are to be removed and exposed surfaces are to be cleaned to a uniform color and texture. A protective coating of transparent lacquer is to be applied to windows before factory shipment. Lacquer must

be such as will withstand action of lime mortar for a period of at least one month in atmosphere of 100% relative humidity at room temperature.

Installation: Window manufacturer is to furnish detail drawings for installation. Contractor shall install windows straight, plumb and level and securely anchor them in place. After windows are installed and glazed, they are to be adjusted, if necessary, to insure efficient operation.

Caulking: Caulking contractor shall apply an approved compound in the caulking rebate between window frame and adjacent construction materials. Compound is to be applied with pressure from a suitable caulking gun.

Glazing: Glazing contractor shall furnish a glazing compound approved for the glazing of aluminum windows. Contractor shall, before commencing glazing, remove from the glazing surfaces any material to which compound will not adhere. (Specify glass to be used which should not exceed one eighth inch nominal thickness.)

OPTIONAL

FIN-TRIM

The jambs, head and sill of windows are to be equipped with an extruded aluminum Fin-Trim of .062 inch minimum thickness. Fin-Trim is to be securely attached to exterior of frame. Head and sill trim for solid masonry construction.

GLAZING BEADS

Aluminum glazing beads of the screwless interlocking type rolled aluminum .020 inch minimum thickness are to be furnished with windows and installed in accordance with manufacturer's instructions.

SCREENS AND STORM SASH

The double-hung windows shall be equipped with "ALWINTITE" aluminum 2-piece storm sash. The window shall be equipped with "ALWINTITE" aluminum full length (or half length) screens—or half length screens interchangeable with lower half of the storm sash.



ALWINTITE

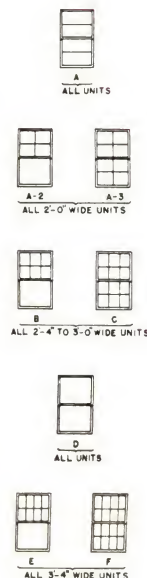
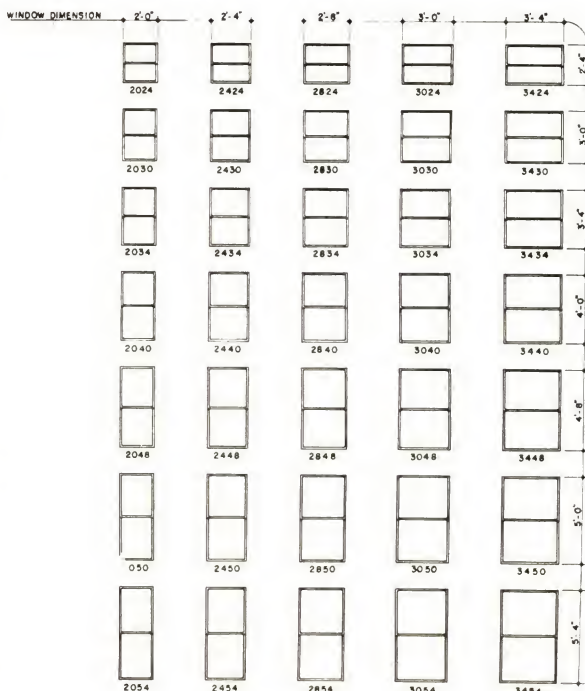
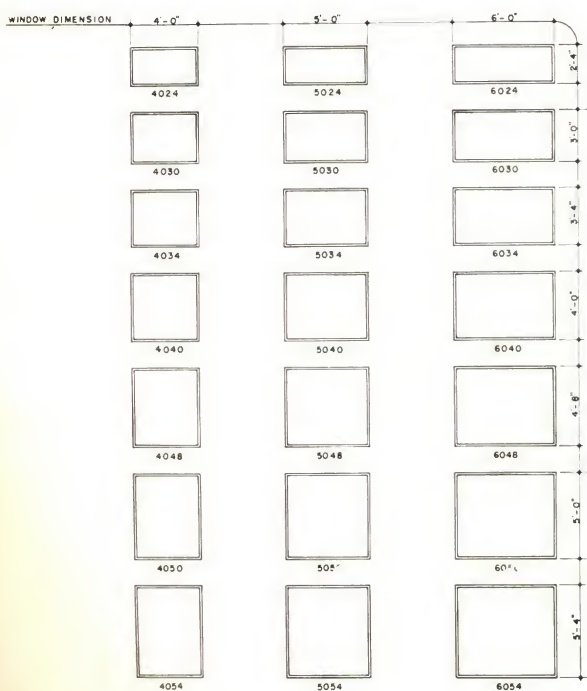
DOUBLE HUNG PICTURE WINDOWS

DOUBLE HUNG PICTURE WINDOWS

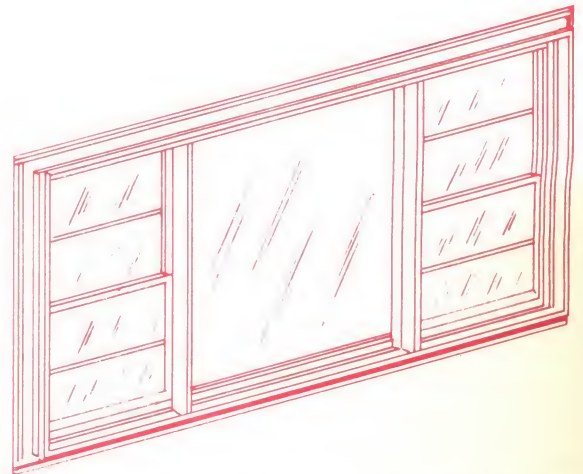
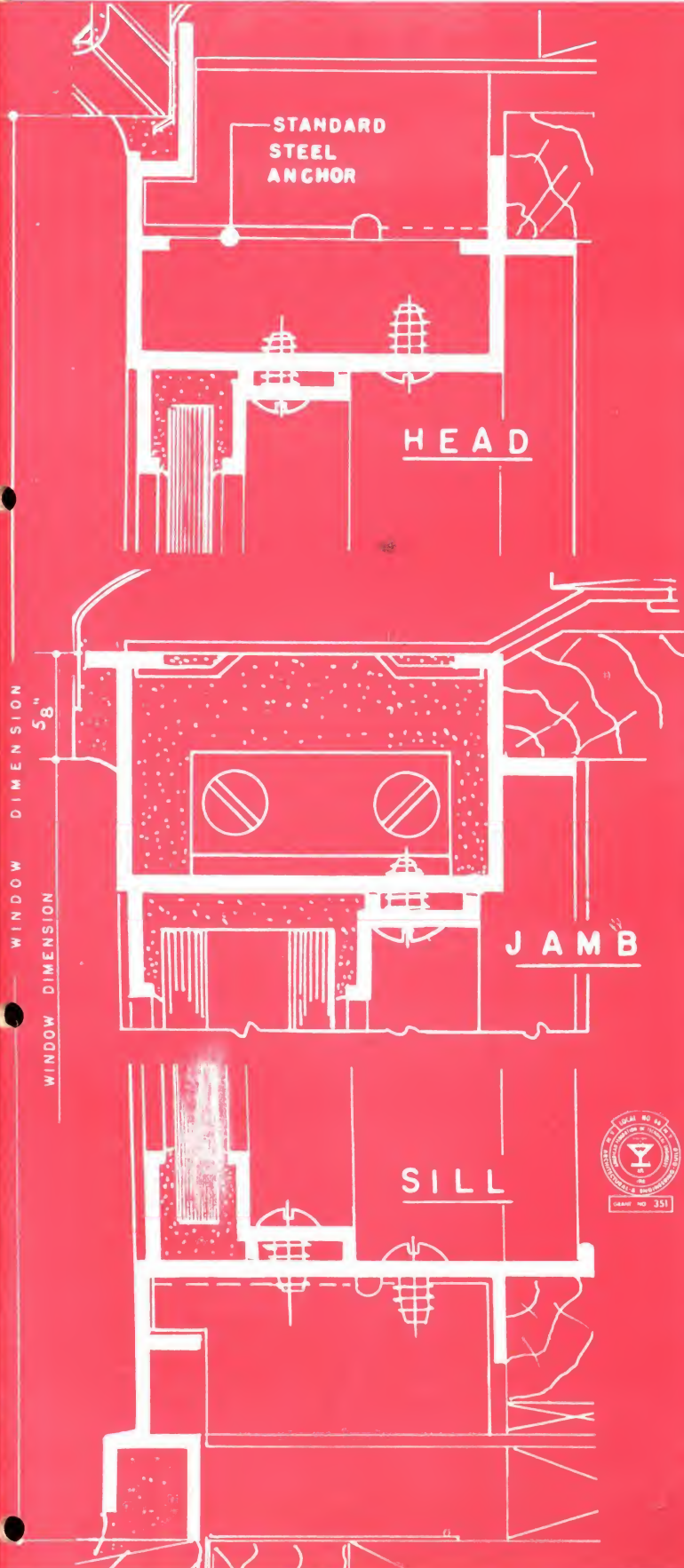


WINDOW TYPES — FIXED GLASS SECTIONS

DOUBLE HUNG WINDOW UNITS



FULL SIZE DETAILS



FOR USE IN LOW COST AS WELL AS LUXURY HOMES
... APARTMENT HOUSES ... HOTELS ... INSTITUTIONS.



A variety of interesting architectural arrangements can be achieved by combining fixed glass sections with corresponding double-hung types.

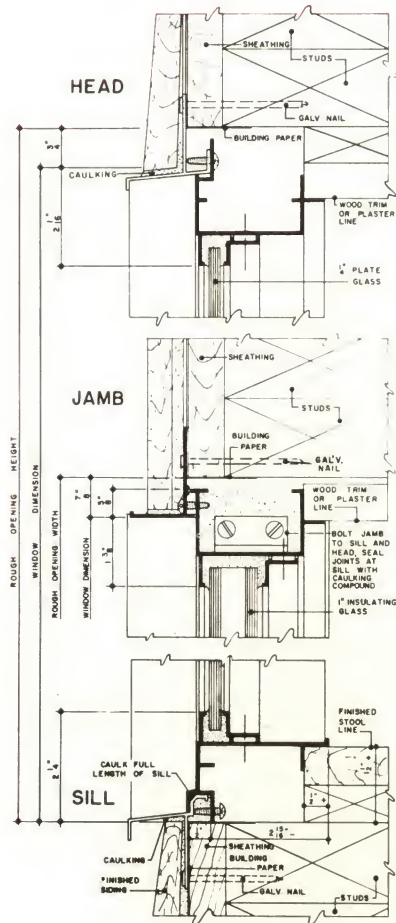
SCHEDULE OF GLASS SIZES — Tolerance + 3/16" — 1/16"

4024 ... 46 1/8" x 24 1/2"	5024 ... 58 1/8" x 24 1/2"	6024 ... 70 1/8" x 24 1/2"
4030 ... 46 1/8" x 32 1/2"	5030 ... 58 1/8" x 32 1/2"	6030 ... 70 1/8" x 32 1/2"
4034 ... 46 1/8" x 36 1/2"	5034 ... 58 1/8" x 36 1/2"	6034 ... 70 1/8" x 36 1/2"
4040 ... 46 1/8" x 44 1/2"	5040 ... 58 1/8" x 44 1/2"	6040 ... 70 1/8" x 44 1/2"
4048 ... 46 1/8" x 52 1/2"	5048 ... 58 1/8" x 52 1/2"	6048 ... 70 1/8" x 52 1/2"
4050 ... 46 1/8" x 56 1/2"	5050 ... 58 1/8" x 56 1/2"	6050 ... 70 1/8" x 56 1/2"
4054 ... 46 1/8" x 60 1/2"	5054 ... 58 1/8" x 60 1/2"	6054 ... 70 1/8" x 60 1/2"

• Stock size of 1" Thermopane or Twinlow

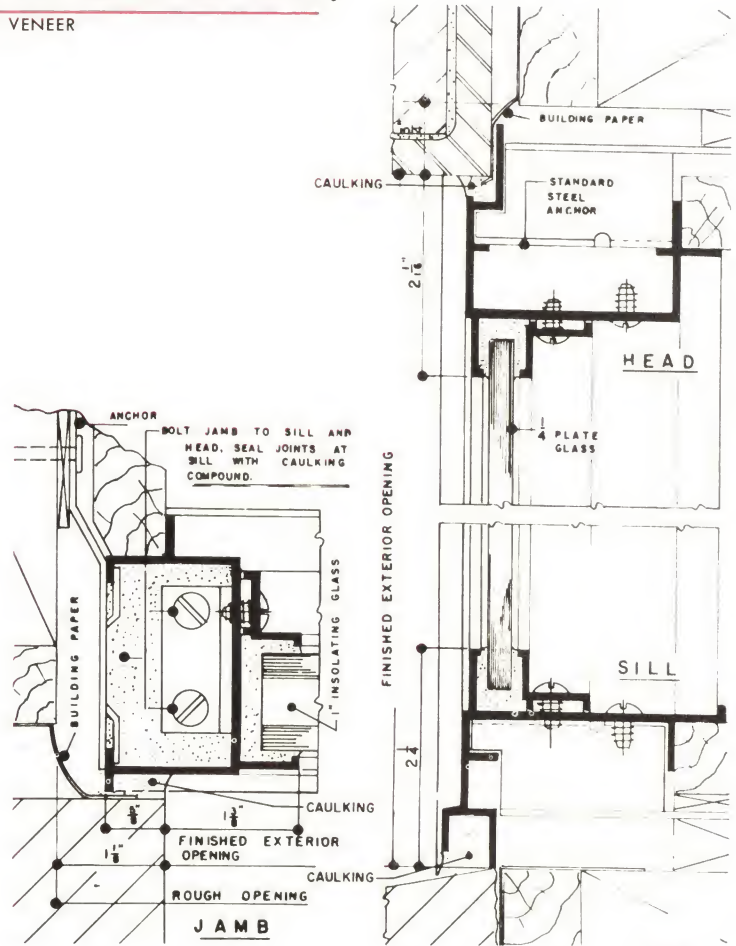
INSTALLATION DETAILS — SCALE 3"=1'0"

FRAME CONSTRUCTION



HALF SIZE INSTALLATION DETAILS

BRICK VENEER



ROUGH OPENING SIZES FOR PICTURE WINDOWS

IN FRAME, BRICK VENEER AND SOLID BRICK CONSTRUCTION

WITH FIN-TRIM

WINDOW NUMBER	SINGLE WIDTH	WIDTH INCLUDING ONE DOUBLE-HUNG WINDOW EACH SIDE				HEIGHT
		2'-0" Side Wds.	2'-4" Side Wds.	2'-8" Side Wds.	3'-0" Side Wds.	
4024	4'-1 3/4"	8'-4 1/4"	9'-0 1/4"	9'-8 1/4"	10'-4 1/4"	2'-4 3/4"
4030						3'-0 3/4"
4034						3'-4 3/4"
4040						4'-0 3/4"
4048						4'-8 3/4"
4050	5'-1 3/4"	9'-4 1/4"	10'-0 1/4"	10'-8 1/4"	11'-4 1/4"	5'-0 3/4"
4054						5'-4 3/4"
5024						2'-4 3/4"
5030						3'-0 3/4"
5034						3'-4 3/4"
5040	6'-1 3/4"	10'-4 1/4"	11'-0 1/4"	11'-8 1/4"	12'-4 1/4"	4'-0 3/4"
5048						4'-8 3/4"
5050						5'-0 3/4"
5054						5'-4 3/4"
6024						2'-4 3/4"

WITHOUT FIN-TRIM

WINDOW NUMBER	SINGLE WIDTH	WIDTH INCLUDING ONE DOUBLE-HUNG WINDOW EACH SIDE				HEIGHT
		2'-0" Side Wds.	2'-4" Side Wds.	2'-8" Side Wds.	3'-0" Side Wds.	
4024	4'-2 1/4"	8'-4 3/4"	9'-0 3/4"	9'-8 3/4"	10'-4 3/4"	2'-4 3/4"
4030						3'-0 3/4"
4034						3'-4 3/4"
4040						4'-0 3/4"
4048						4'-8 3/4"
4050	5'-2 1/4"	9'-4 3/4"	10'-0 3/4"	10'-8 3/4"	11'-4 3/4"	5'-0 3/4"
4054						5'-4 3/4"
5024						2'-4 3/4"
5030						3'-0 3/4"
5034						3'-4 3/4"
5040	6'-2 1/4"	10'-4 3/4"	11'-0 3/4"	11'-8 3/4"	12'-4 3/4"	4'-0 3/4"
5048						4'-8 3/4"
5050						5'-0 3/4"
5054						5'-4 3/4"
6024						2'-4 3/4"



ALWINTITE



RESIDENTIAL . . .



. . . COMMERCIAL

INSTITUTIONAL . . .



Aluminum AWNING WINDOWS

For any type of installation—residential, commercial or institutional—the ALWINTITE Awning Window will fill the most exacting engineering requirements of architects and builders. Available with either rotary operator or control bar operator, this window is designed for functional beauty and durability second to none in the field.

Superiority in ... Design! Function! Durability!

BALANCED POWER!



New "Roto-Flex" gear assembly transfers precision power simultaneously to right and left jambs. Operator and cable encased with lifetime lubricant in weatherproof housing.

BUILT-IN AUTOMATIC LOCKING!



Superior hardware automatically locks all sash in closed position ... Ideal protection against prowlers. Maintains rigidity in open positions... no manual lock necessary on bottom vent.

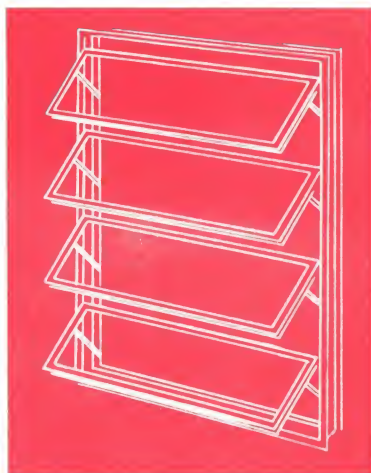
WEATHER-TIGHT!



Extruded elastomeric vinyl weatherstripping maintains everlasting tight seal against rain, wind and dust. Stripping is not exposed when window is closed.

ARCHITECTURALLY ATTRACTIVE!

Sturdy construction for maximum strength yet expertly designed with narrow sight lines. Smooth inside facing to enhance interior decor.



SUPER-SMOOTH OPERATION!



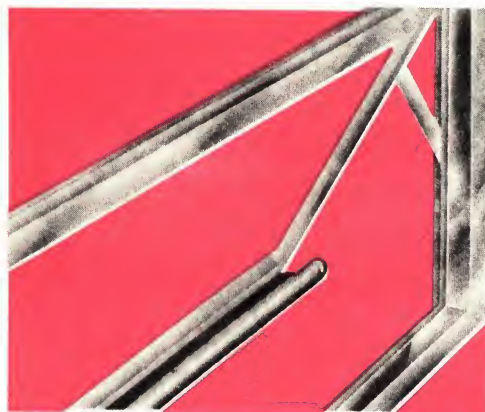
Tilted, center-sill "Roto-Flex" operator built by General Bronze. Grasps conveniently ... opens and closes windows with utmost ease. No tension on operator after closing.

ROTARY OPERATOR



Offset rotary operated handle located at center of sill provides for ease of operation with Balanced Power. This advanced engineering operating principle provides for an air-tight window that exceeds all approved air infiltration standards.

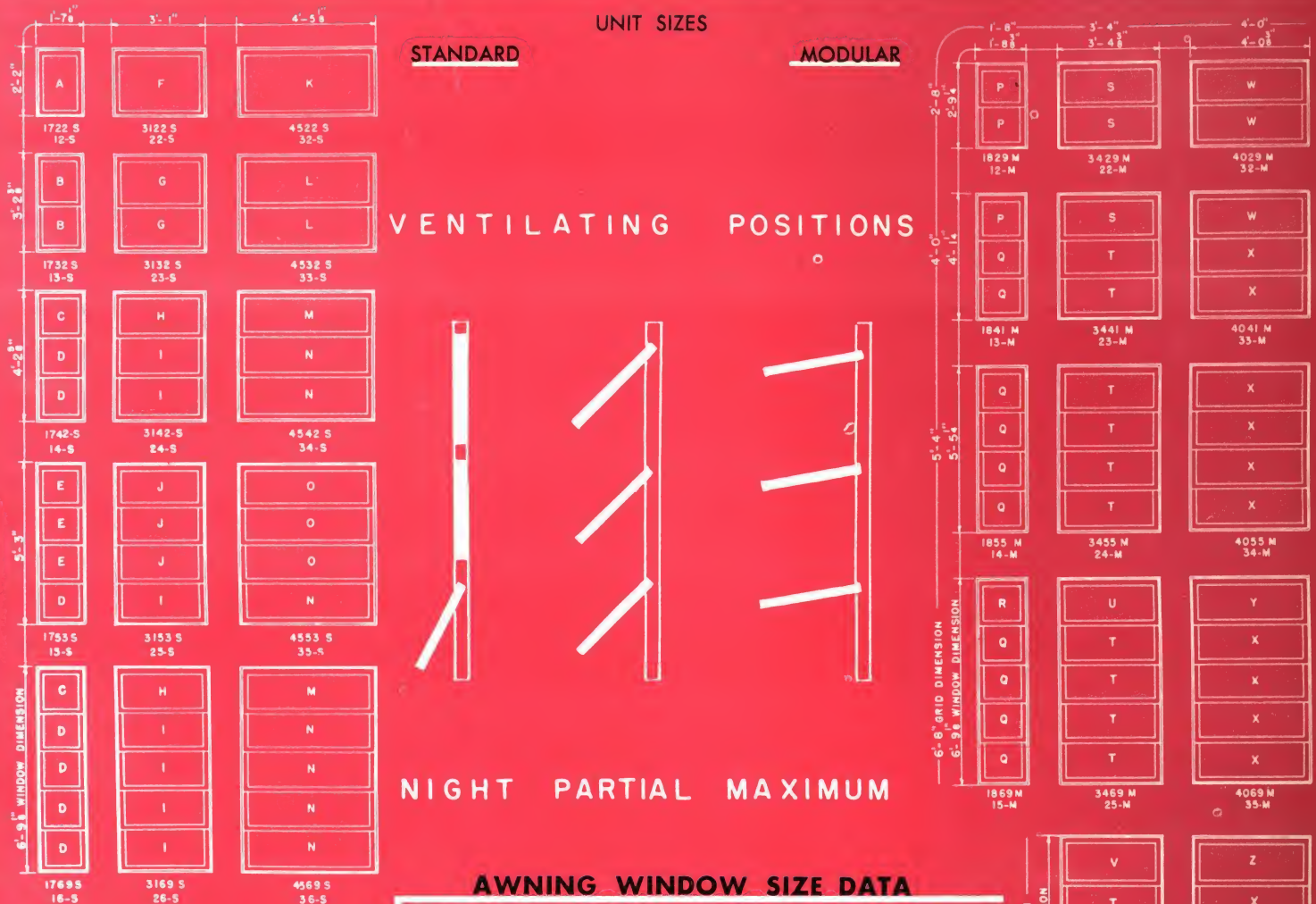
BAR OPERATOR



For operational ease, the bar-type operator makes windows so simple to open and close, that any child can manage them. Just push out, or pull in. All vents can be opened fully or closed tight with one motion. Ideal for use in schools.

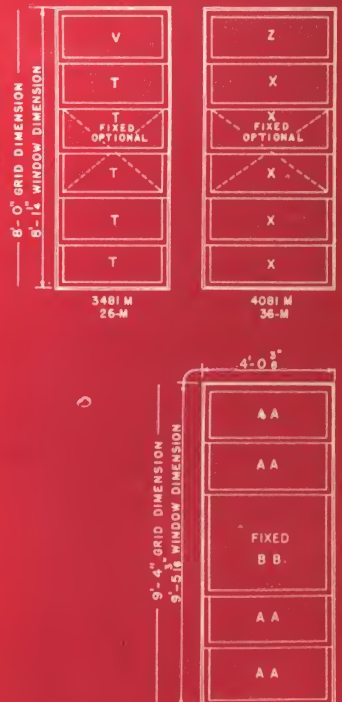
ACCESSORIES!

Continuous installation fins, mullions, glazing beads and picture windows. Storm Sash and Screens available for all sizes.



AWNING WINDOW SIZE DATA

Type	Window Dimension		Window Area	Ventilating Area	1/2" TWINDOW 1/2" THERMOPANE DOUBLE STRENGTH GLASS	
	Width	Height			Glass Sizes	
1722-S	1'-7 1/8"	2'-2"	1.84 Sq. Ft.	1.84 Sq. Ft.	Letter	Width Height
1732-S	1'-7 1/8"	3'-2 3/8"	2.80 "	2.90 "	A	14 1/8" x 20 1/4"
1742-S	1'-7 1/8"	4'-2 1/4"	3.75 "	3.96 "	B	14 1/8" x 15 1/8"
1753-S	1'-7 1/8"	5'-3"	4.71 "	5.01 "	C	14 1/8" x 14 3/4"
1769-S	1'-7 1/8"	6'-9 1/8"	6.21 "	6.62 "	D	14 1/8" x 13 3/4"
3122-S	3'-1"	2'-2"	4.28 "	4.25 "	E	14 1/8" x 13"
3132-S	3'-1"	3'-2 3/8"	6.50 "	6.69 "	F	32" x 20 1/4"
3142-S	3'-1"	4'-2 5/8"	8.72 "	9.11 "	G	32" x 15 1/8"
3153-S	3'-1"	5'-3"	10.96 "	11.57 "	H	32" x 14 3/4"
3169-S	3'-1"	6'-9 1/8"	14.44 "	15.27 "	I	32" x 13 3/4"
4522-S	4'-5 1/8"	2'-2"	6.47 "	6.41 "	J	32" x 13"
4532-S	4'-5 1/8"	3'-2 3/8"	9.86 "	10.12 "	K	48 1/8" x 20 1/4"
4542-S	4'-5 1/8"	4'-2 5/8"	13.20 "	13.77 "	L	48 1/8" x 15 1/8"
4553-S	4'-5 1/8"	5'-3"	16.57 "	17.47 "	M	48 1/8" x 14 3/4"
4569-S	4'-5 1/8"	6'-9 1/8"	21.86 "	23.08 "	N	48 1/8" x 13 3/4"
1829-M	1'-8 3/8"	2'-9 1/4"	2.54 "	2.64 "	O	48 1/8" x 13"
1841-M	1'-8 3/8"	4'-1 1/4"	3.95 "	4.17 "	P	15 3/8" x 13"
1855-M	1'-8 3/8"	5'-5 1/4"	5.36 "	5.70 "	Q	15 3/8" x 13 3/4"
1869-M	1'-8 3/8"	6'-9 1/8"	6.77 "	7.23 "	R	15 3/8" x 14 3/8"
3429-M	3'-4 3/8"	2'-9 1/4"	5.98 "	6.17 "	S	35 3/8" x 13"
3441-M	3'-4 3/8"	4'-1 1/4"	9.33 "	9.76 "	T	35 3/8" x 13 3/4"
3455-M	3'-4 3/8"	5'-5 1/4"	12.68 "	13.35 "	U	35 3/8" x 14 3/8"
3469-M	3'-4 3/8"	6'-9 1/8"	16.00 "	16.90 "	V	35 3/8" x 15 1/4"
3481-M	3'-4 3/8"	8'-1 1/4"	19.38 "	20.53 "	W	43 3/8" x 13"
4029-M	4'-0 3/8"	2'-9 1/4"	7.34 "	7.58 "	X	43 3/8" x 13 3/4"
4041-M	4'-0 3/8"	4'-1 1/4"	11.47 "	11.99 "	Y	43 3/8" x 14 3/8"
4055-M	4'-0 3/8"	5'-5 1/4"	15.60 "	16.40 "	Z	43 3/8" x 15 1/4"
4069-M	4'-0 3/8"	6'-9 1/8"	19.68 "	20.78 "	AA	43 3/8" x 16 3/8"
4081-M	4'-0 3/8"	8'-1 1/4"	23.84 "	25.24 "	BB	43 3/8" x 34 1/8"
4095-M	4'-0 3/8"	9'-5 1/8"	29.19 "	19.81 "		



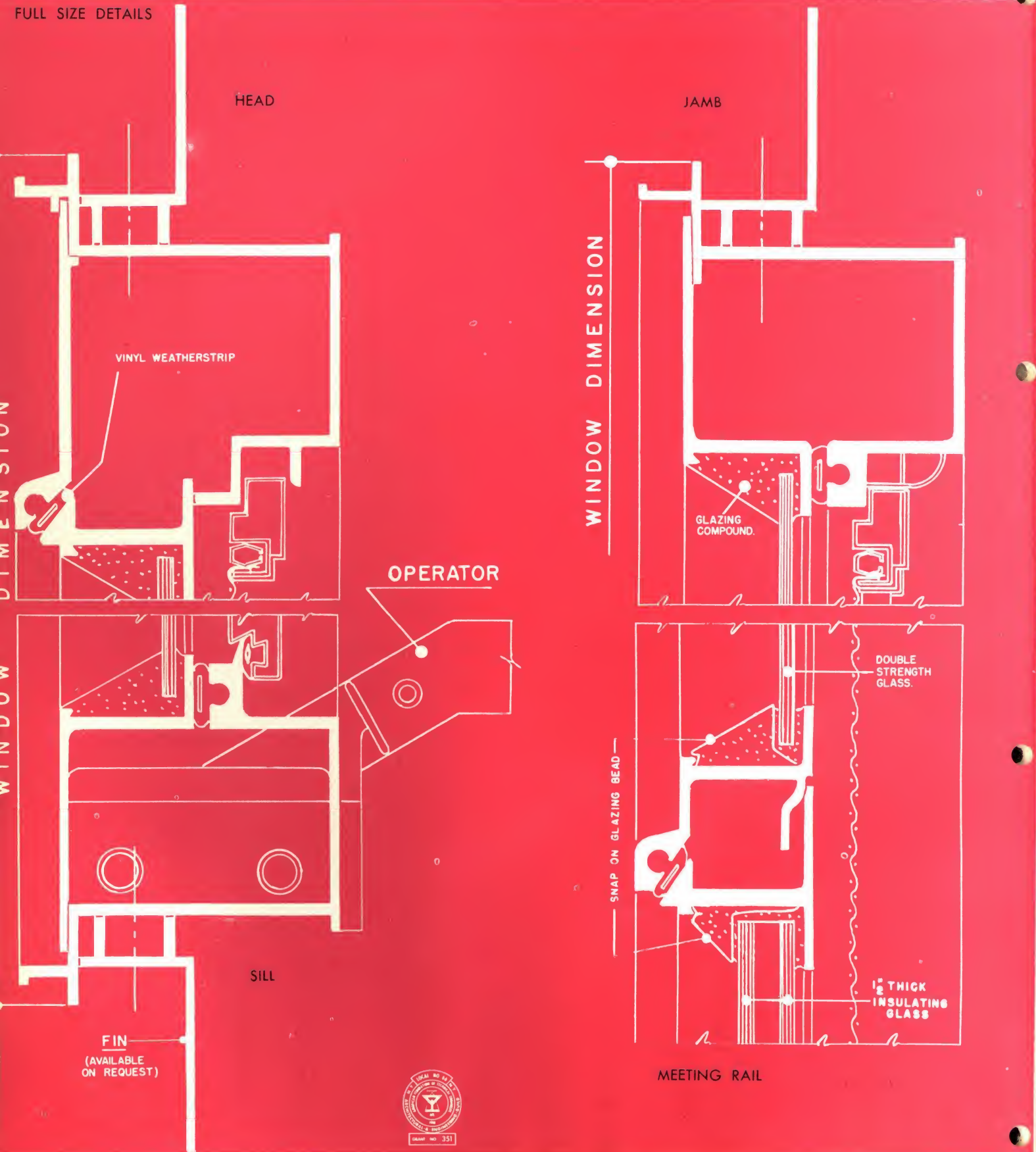
HOPPER VENT



GLASS TOLERANCES

Twindow & Thermopane	± 1/16"
Double Strength Glass	+ 1/16"
	- 0"

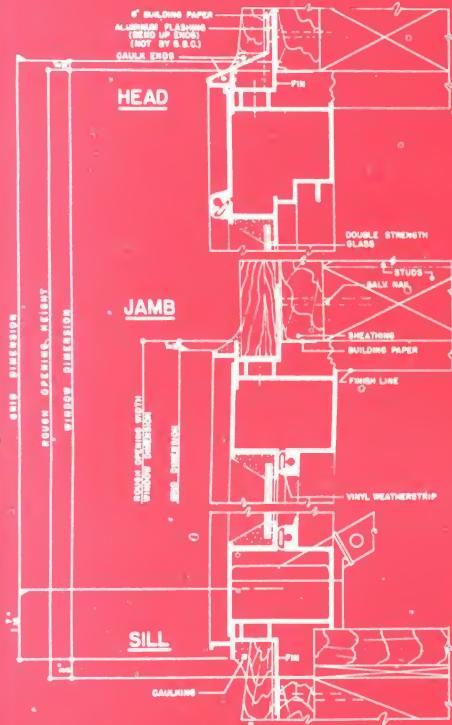
FULL SIZE DETAILS



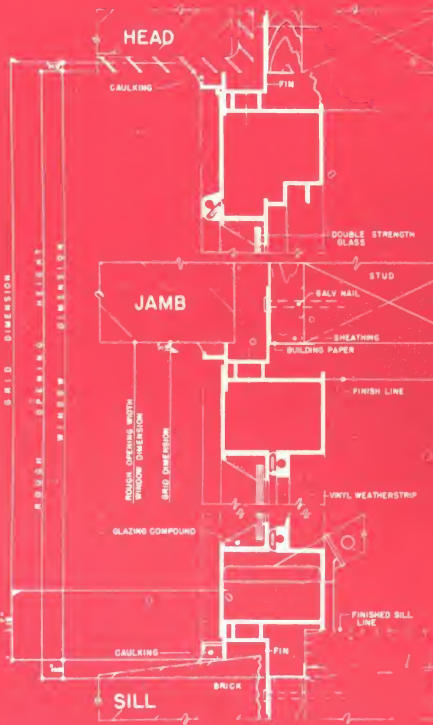
INSTALLATION DETAILS — SCALE 3"=1'0"

NOTE: Details shown with fin, can also be installed with Steel Anchors.

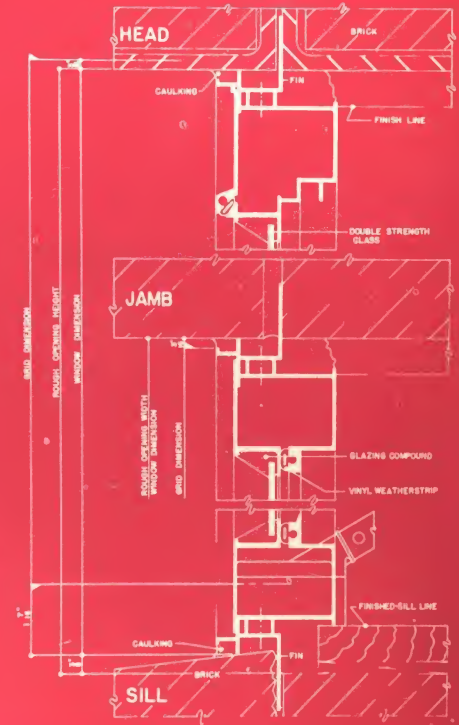
FRAME CONSTRUCTION



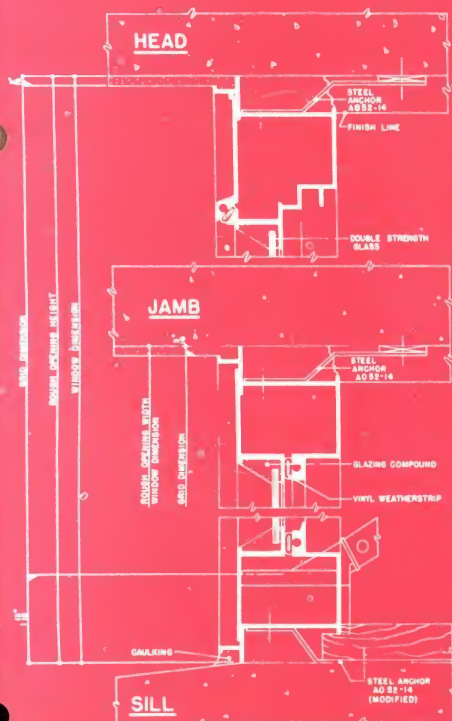
BRICK VENEER



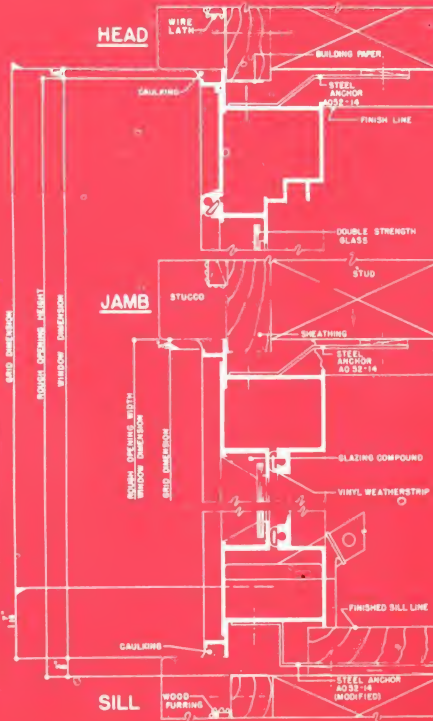
SOLID BRICK



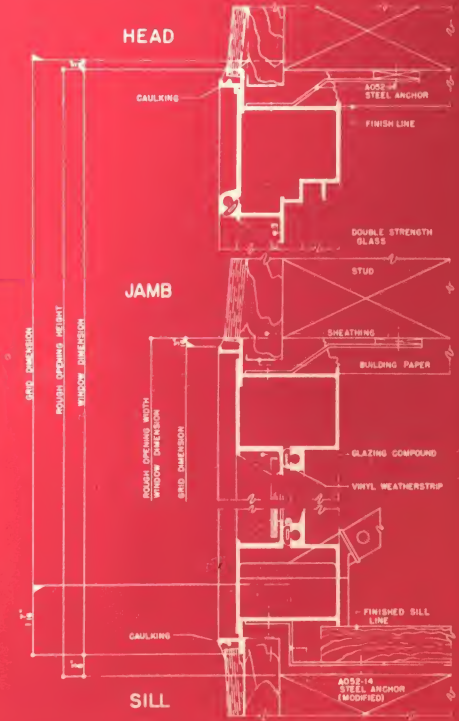
CONCRETE BLOCK



STUCCO



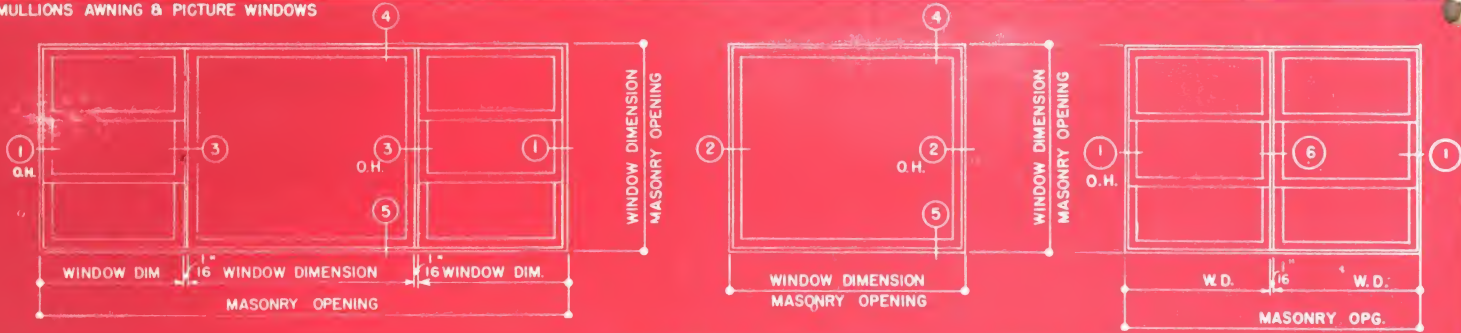
ASBESTOS SHINGLE



NOTE: Details shown with Steel Anchors, can also be installed with fin.



180° MULLIONS AWNING & PICTURE WINDOWS

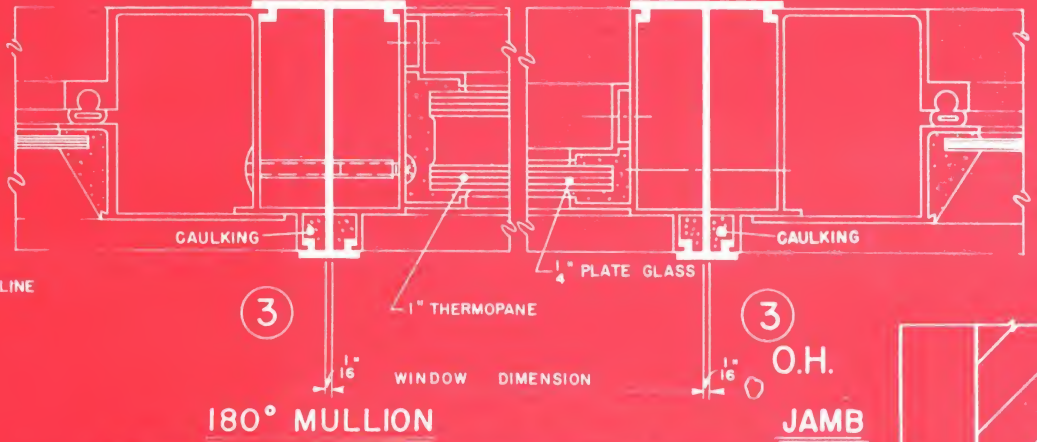
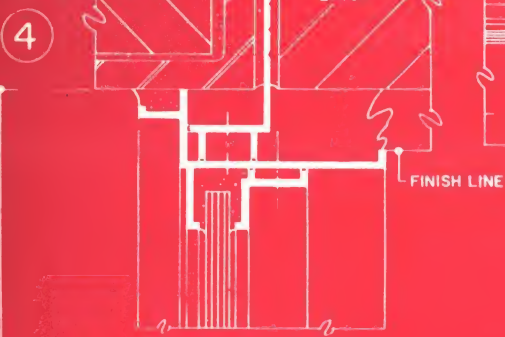


HALF SIZE INSTALLATION DETAILS

180° MULLION

180° MULLION

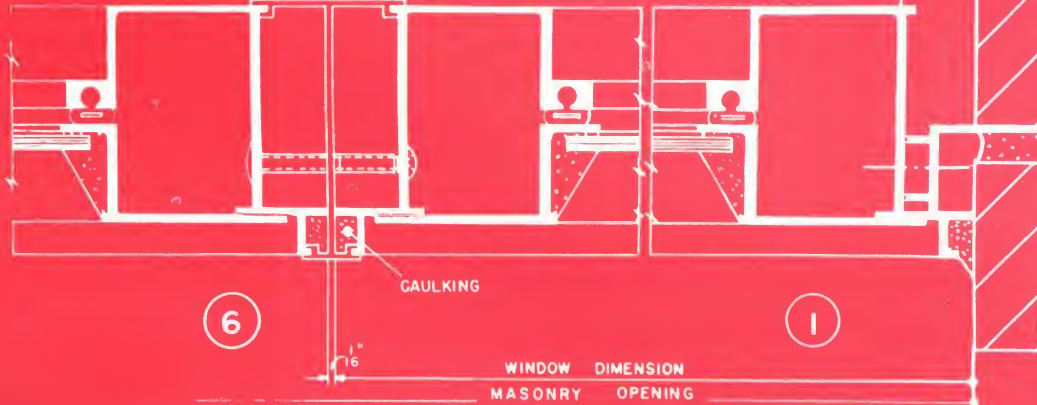
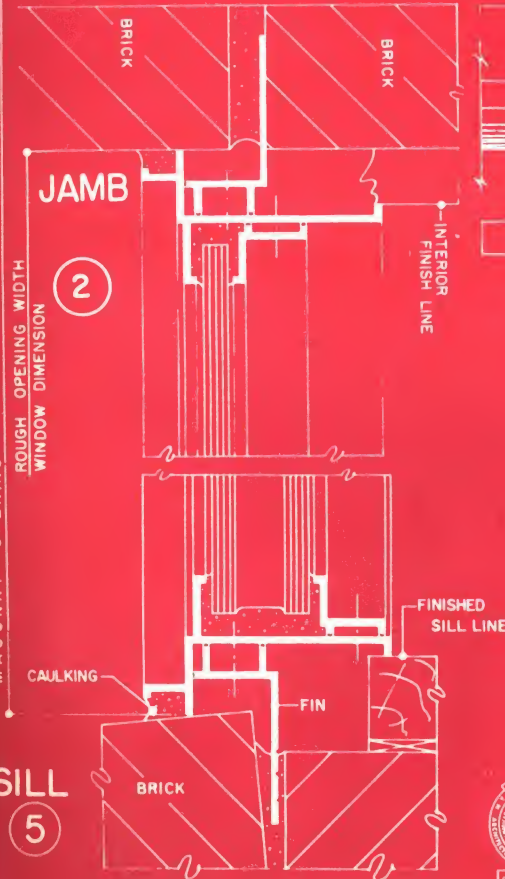
HEAD



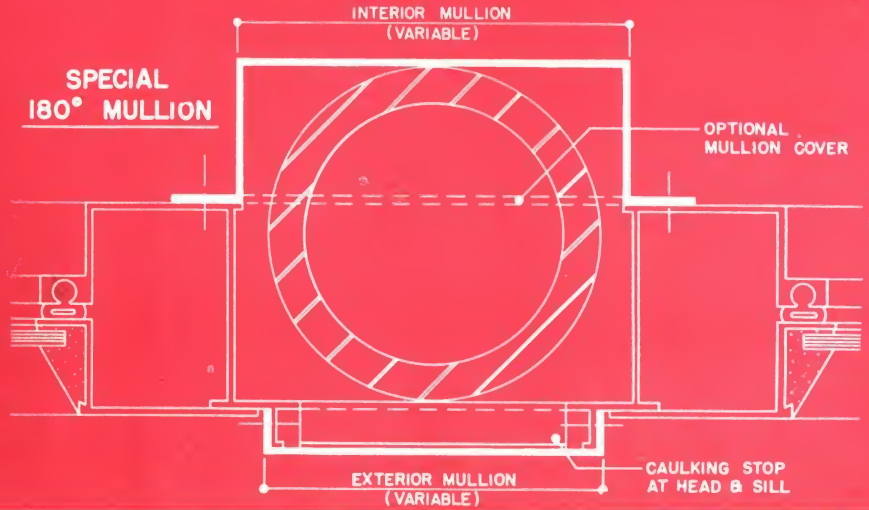
180° MULLION

JAMB

WINDOW DIMENSION
ROUGH OPENING WIDTH
WINDOW DIMENSION
MASONRY OPENING



SPECIAL
180° MULLION



SPECIFICATIONS

General: The awning windows shown on the architect's drawings shall be the "Alwintite" aluminum awning windows as manufactured by the General Bronze Corporation (Alwintite Division) Garden City, New York.

Materials: Frame and ventilator members shall be manufactured from 63 S-T5 extruded aluminum alloy having a minimum thickness of .062". Frame members shall have a minimum depth of 2-9/16". Ventilator members shall have a minimum depth of 1". Operating hardware shall be suitable aluminum alloy of sufficient hardness to perform its required function or of stainless steel. Weatherstripping shall be of an elastomeric vinyl or equal.

Construction: Frame and ventilator members shall be mitered and neatly fitted to a hairline, securely connected and absolutely weathertight. Ventilators shall have double weathering contacts, one of which shall be weatherstripped, around their entire perimeter when window is in closed position. Weatherstripping shall be securely retained in keyways extruded integral with the window members and shall not be exposed to view when vents are closed.

Operation: Outside opening ventilators shall open to a maximum of 80° with the top vent dropping a minimum of 5" to permit inside cleaning. Rigidity shall be maintained on vents in any open position. When vents are closed, they shall be automatically locked and no manual locking shall be required.

For partial ventilation, bottom vent shall open 2", while upper vents remain closed and locked. Operating mechanism shall be free of twist or torque, and balanced power shall be transferred simultaneously to right and left jambs from a center-sill operator, as manufactured by General Bronze Corporation, through a "Roto-Flex" gear assembly which shall be encased with lifetime lubricant in weatherproof housing. Operator shall not require excessive pressure to lock vents and shall be relieved of all tension after locking. Or, if so specified, a bar-type operator for opening fully or closing tight shall be furnished. No ventilator adjustments shall be necessary. Operator shall be located at center of sill and tilted for convenient grasp, to clear any stool, drapes, blinds or screens.

Hardware: Window shall be furnished with complete operating hardware of aluminum, stainless steel, or other non-corrosive material, where exposed, of sufficient hardness to suitably perform its required function. Hardware shall be attached at point of manufacture, except operator handle, which can easily be assembled after window installation.

Air Infiltration: The infiltration of air through the window shall not exceed the standards specified by the Aluminum Window Manufacturers' Association.

Finish: The windows are to be finished in the natural aluminum color. After fabrication, surface blemishes, scratches and tool marks are to be removed and the exposed surfaces are to be cleaned to a uniform color and texture. A protective coating of transparent lacquer is to be applied to the windows before shipment from the factory. The lacquer must be such as will withstand the action of lime mortar for a period of at least one month in an atmosphere of 100% relative humidity at room temperature.

Installation: The window manufacturer is to furnish detail drawings for the installation of the windows. The installation contractor shall install the windows straight, plumb and level and securely anchor them in place. After the windows are installed and glazed, no adjustment for proper operation of ventilating units shall be necessary.

Caulking: The caulking contractor shall apply an approved caulking compound in the caulking rebate between the window frame and the adjacent construction materials. The caulking compound is to be applied with pressure from a suitable caulking gun to insure a thoroughly weathertight installation.

Glazing: The glazing contractor shall furnish a glazing compound approved for the glazing of aluminum windows and shall install double-strength glass (or one-half inch double glazing) with spring clips furnished by the window manufacturer. The glazing contractor shall, before commencing glazing, remove from the glazing surfaces any material to which the glazing compound will not adhere.

OPTIONAL

FIN-TRIM

The jambs, head and sill of the windows are to be equipped with an extruded aluminum fin trim of .050 inch minimum thickness. The fin trim is to be securely attached to the exterior of the window frame.

GLAZING BEADS

Aluminum snap-on glazing beads to cover the glazing compound are to be furnished with the windows. The glazing beads are to be rolled aluminum of .02 inch minimum thickness, and shall be installed in accordance with the manufacturer's instructions.

SCREENS AND STORM SASH

The windows shall be equipped with "ALWINTITE" Aluminum Screens or with "ALWINTITE" Aluminum Storm Sash.

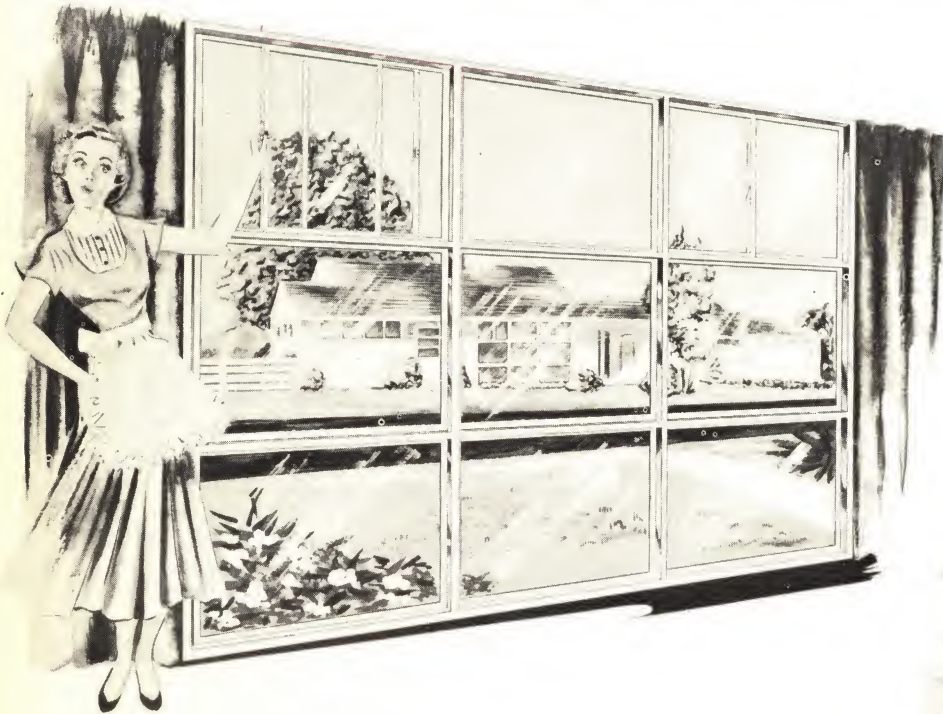
SCHEDULE OF GLASS SIZES FOR PICTURE WINDOW

1/4" PLATE GLASS, *1" THERMOPLANE OR TWINLOW		
4022.....46"x 24"	5022.....58"x 24"	6022.....70"x 24"
4029.....46"x 31 1/4"	5029.....58"x 31 1/4"	6029.....70"x 31 1/4"
4032.....46"x 36 3/8"	5032.....58"x 36 3/8"	6032.....70"x 36 3/8"
4041.....46"x 47 1/4"	5041.....58"x 47 1/4"	6041.....70"x 47 1/4"
4042.....46"x 48 3/8"	5042.....58"x 48 3/8"	6042.....70"x 48 3/8"
4053.....46"x 61"	5053.....58"x 61"	6053.....70"x 61"
4055.....46"x 63 1/4"	5055.....58"x 63 1/4"	6055.....70"x 63 1/4"
4069.....46"x 79 1/8"	5069.....58"x 79 1/8"	6069.....70"x 79 1/8"
4081.....46"x 95 1/4"	5081.....58"x 95 1/4"	6081.....70"x 95 1/4"
4095.....46"x 111 3/8"	5095.....58"x 111 3/8"	6095.....70"x 111 3/8"

GLASS TOLERANCE $\pm \frac{3}{16}$ " $-\frac{1}{16}$ "

*Check Maximum Size

VIEWall WINDOWS



*Bring
Outdoor Beauty
Indoors!*

These large new ALWINTITE VIEWall Windows, with sliding vents, are ideal for ranch-type and modern homes. They can be used in living rooms, dining rooms—or wherever a window wall would enhance home beauty! Specify VIEWall Windows for unusual treatment in hotels, institutions or commercial buildings.

These sliding window vents may be located in any arrangement you choose, and the sliding sash units may be removed for full ventilation or cleaning. Fixed lights can be glazed with standard size units of "Thermopane" or "Twindow" or with double strength glass. Storm sash and screens are available.

So to design or build a house with extra luxury, use an ALWINTITE VIEWall Window. You'll make the freshness and color of out-of-doors a real and wonderful part of the house!



SIX LITE VIEWALL

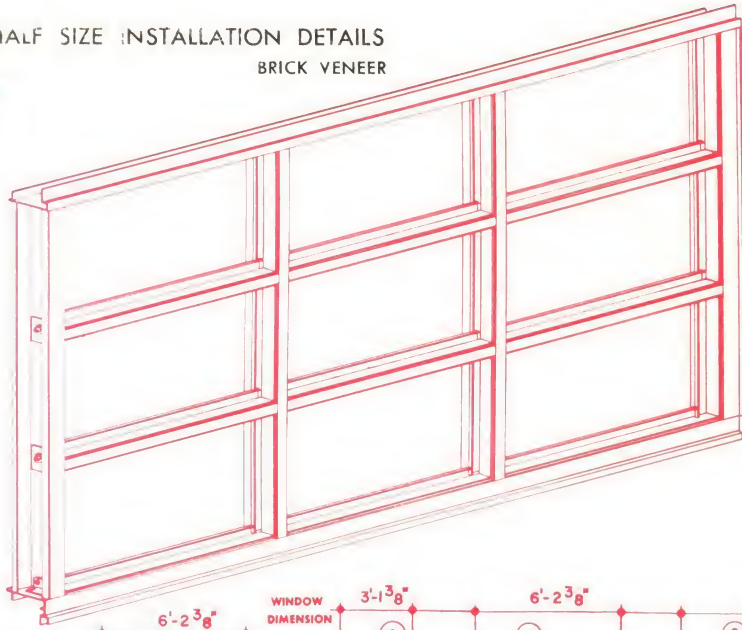


MULTIPLE VIEWALL ARRANGEMENTS



NINE LITE VIEWALL

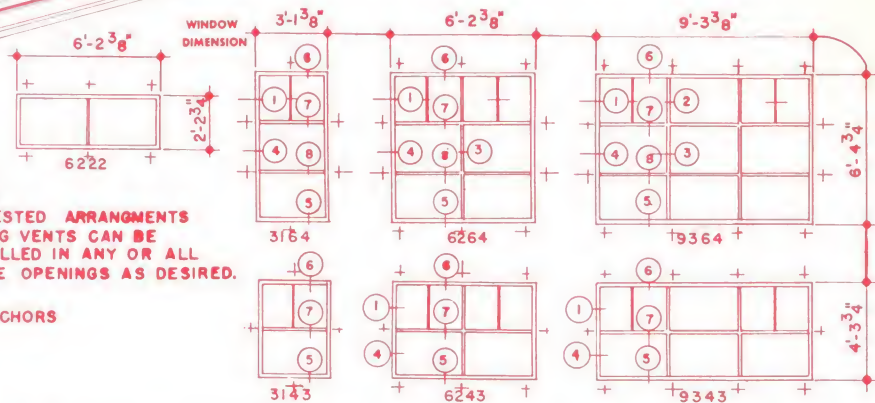
HALF SIZE INSTALLATION DETAILS
BRICK VENEER



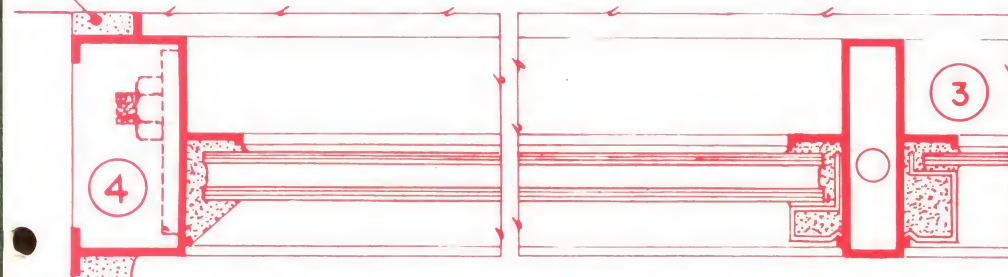
NOTE:

SUGGESTED ARRANGEMENTS
SLIDING VENTS CAN BE
INSTALLED IN ANY OR ALL
FRAME OPENINGS AS DESIRED.

+ = ANCHORS

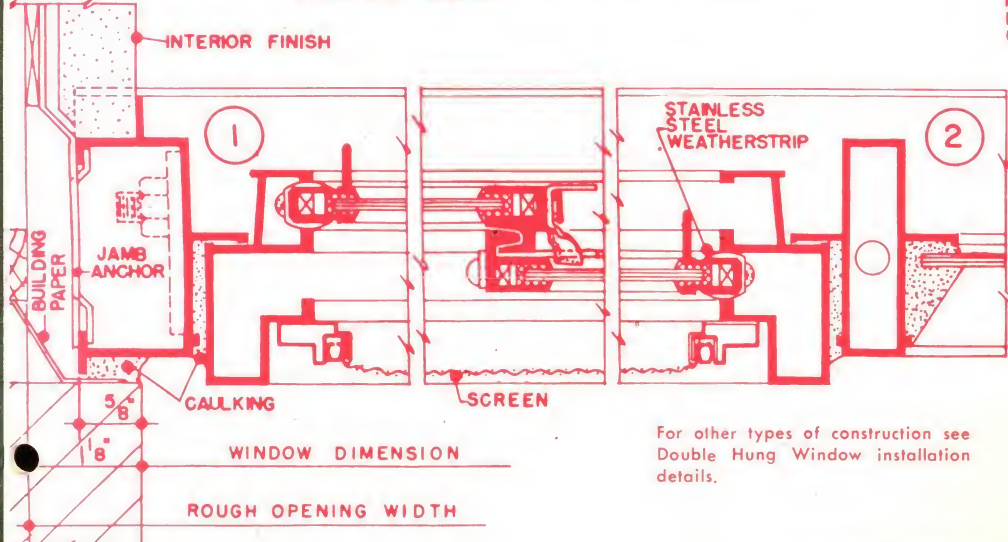


INTERIOR
FINISH



JAMB

FIXED LIGHTS CAN BE GLAZED WITH STANDARD
SIZE 1/2 THERMOPANE OR WITH 1/8 DOUBLE
STRENGTH GLASS.



ROUGH OPENING HEIGHT

WINDOW DIMENSION

GLASS MAY BE
INSTALLED WITH
METAL GLAZING
BEAD OR GLAZING
COMPOUND

FILL WITH
GLAZING
COMPOUND

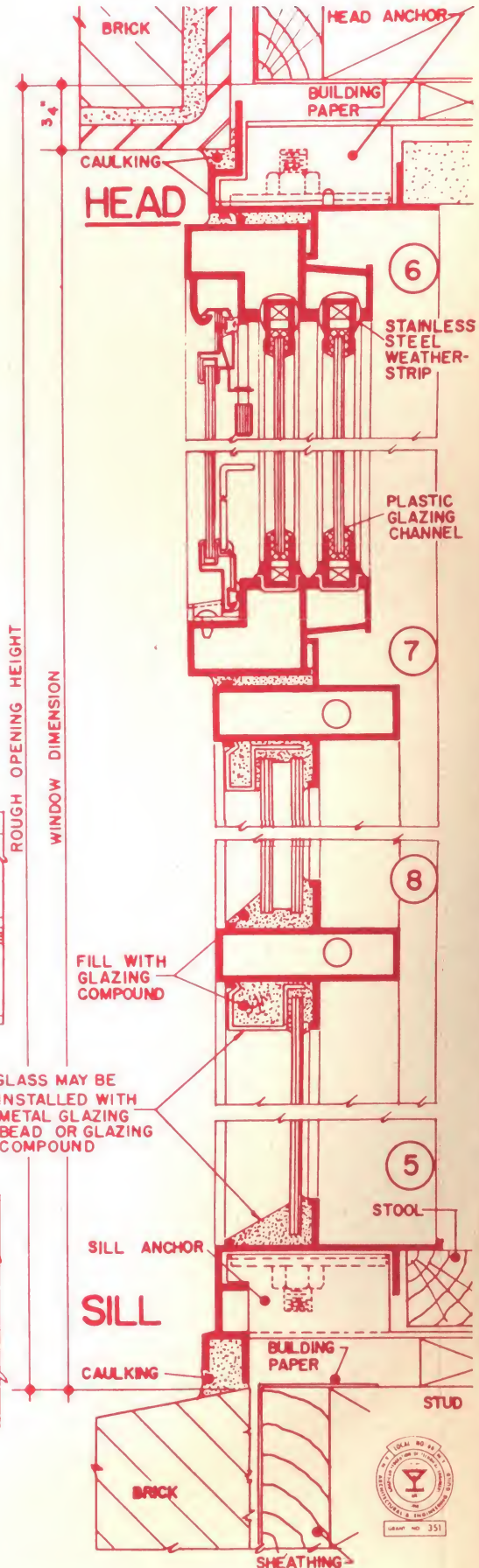
SILL ANCHOR

SILL

CAULKING

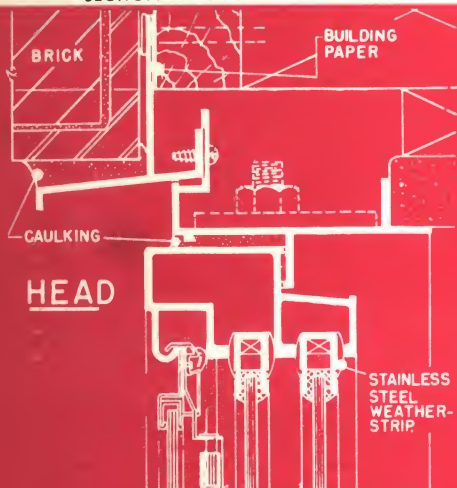
BRICK

SHEATHING



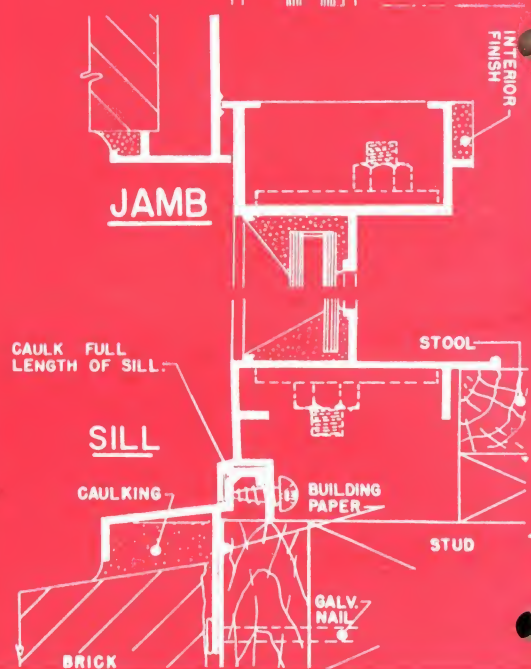
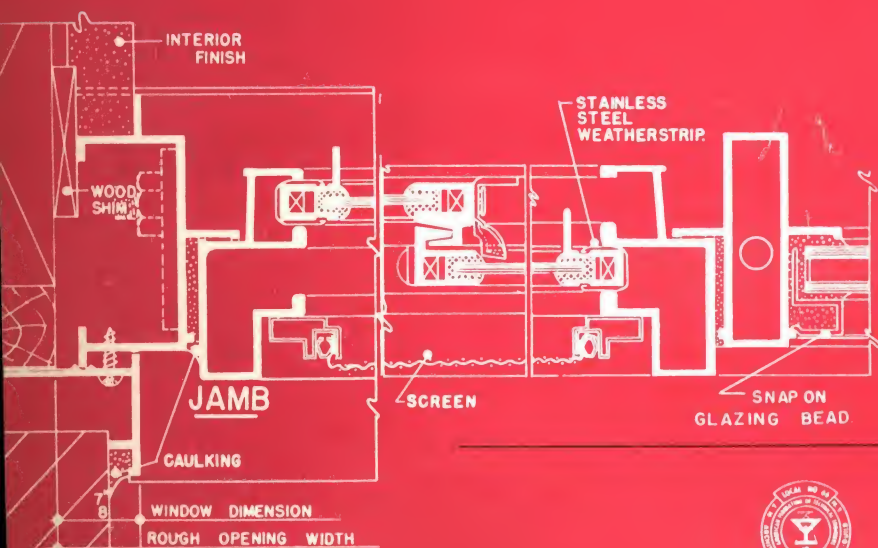
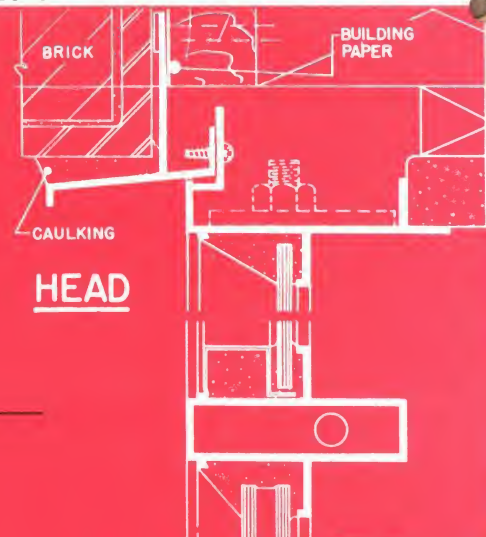
For other types of construction see
Double Hung Window installation
details.

SECTION THROUGH SLIDING SASH



HALF SIZE INSTALLATION DETAILS
BRICK VENEER

SECTION THROUGH FIXED GLASS



VIEWALL SIZE DATA

Size	Window Area (a) All Fixed Lights (Sq. ft.)	Window Dimensions		Rough Opening Dimensions (Except Concrete Block)			
		Width	Height	Without Fin-Trim		With Fin-Trim	
3143	11.38	3'1 3/8"	4'3 3/4"	3'3 3/8"	4'4 1/2"	3'3 1/8"	4'4 1/2"
3164	17.07	3'1 3/8"	6'4 3/4"	3'3 3/8"	6'5 1/2"	3'3 1/8"	6'5 1/2"
6222	11.38	6'2 3/8"	2'2 3/4"	6'4 3/8"	2'3 1/2"	6'4 1/8"	2'3 1/2"
6243	22.76	6'2 3/8"	4'3 3/4"	6'4 3/8"	4'4 1/2"	6'4 1/8"	4'4 1/2"
6264	34.14	6'2 3/8"	6'4 3/4"	6'4 3/8"	6'5 1/2"	6'4 1/8"	6'5 1/2"
9343	34.14	9'3 3/8"	4'3 3/4"	9'5 3/8"	4'4 1/2"	9'5 1/8"	4'4 1/2"
9364	51.21	9'3 3/8"	6'4 3/4"	9'5 3/8"	6'5 1/2"	9'5 1/8"	6'5 1/2"

CONCRETE BLOCK ROUGH OPENING DIMENSIONS

Without Fin-Trim

Add 1 3/4" to window dimension width
Add 3/4" to window dimension height

With Exterior Mullion Cover At Jamb

Add 1 1/2" to window dimension width
Add 3/4" to window dimension height

(a) For each sliding window vent inserted, deduct .52 sq. ft. from window area.

VENTILATING AREA

One sliding window vent.....	2.41 sq. ft.
Two sliding window vents.....	4.82 sq. ft.
Three sliding window vents.....	7.23 sq. ft.
Add 2.41 sq. ft. for each additional sliding window vent	

SASH GLASS SIZES

	Single Glazing	1/2" Thermopane or Twindow (Stock Sizes)	Storm Sash Glass Sizes
Sliding Window Vent.....	16 3/4" x 21 1/2"	16 1/8" x 20 1/2"	33 1/2" x 21 1/4"
1 Fixed Light.....	36" x 24"	36" x 24"	35 1/2" x 23 1/2"
2 Vertical Fixed Lights.....	—	—	35 1/2" x 48 1/2"
Glass tolerance	+ 1/16" - 0"	± 1/16"	± 1/32"

SPECIFICATIONS

General: The Viewall windows shown on the architects drawings shall be of the "Alwintite" type as manufactured by the General Bronze Corporation (Alwintite Division), Garden City, New York. The windows shall consist of a series of panels divided by vertical and horizontal mullions and enclosed in a frame. The panels shall be filled with either fixed lights of glass or with horizontal sliding window units as indicated.

Materials: The frame, mullions and sliding windows shall be manufactured from 63S-T5 extruded aluminum alloy having a minimum thickness of .062 inch. The weatherstripping shall be manufactured from stainless steel having a minimum thickness of .005 inch. The combination weatherstripping and anti-friction sliding contact at the sill of the sliding sash shall be manufactured from zinc having a minimum thickness of .018 inch. The glass settings in the sliding sash shall be manufactured from extruded vinylite. The tie rods in the mullions shall be of solid extruded aluminum with aluminum fittings. Screws used for the assembly or installation of the windows shall be of aluminum or stainless steel. Anchors shall be of steel coated with an insulating paint.

Construction: The corners of the window frame, the intersections of the mullions and the engagement of the mullions with the frame shall be made with mechanical joints secured with screws. Tie rods are to be installed in the vertical and horizontal mullions, extending through the jambs, head and sill of the frame and secured at the back of same with bearing plates and nuts.

The horizontal sliding windows shall be complete and independent units for installation in the panels where required. The frame of the sliding window shall be of one piece construction welded at the corners. The sill of the frame shall be designed to facilitate cleaning and be provided with weep holes to drain the guides. The frame is to be secured to the panel with screws.

The sash shall be designed to slide in the guides at the sill of the frame on the combination weatherstrip and anti-friction contact in a manner that will prevent contact between aluminum. The sash are to be removable from the frame without the necessity of dismantling parts of the frame. When the sash are closed and locked, it shall be impossible to remove them from the frame.

The vertical meeting rails of the sliding sash shall be designed with interlocking contacts to insure weather resistance when closed and locked and a suitable catch is to be provided on the meeting rails for this purpose. The jamb rails and top rails of the sliding sash shall be provided with stainless steel weatherstripping, and the bottom rails of sliding sash shall be provided with zinc combination weatherstripping and anti-friction sliding contact.

The corners of the sliding sash are to be fitted to hairline joints in a workmanlike manner and be secured by means of corner connections which can be conveniently disassembled to facilitate glazing.

Air Infiltration: The infiltration of air through the window shall not exceed one-half cubic foot per minute per linear foot of operating sash perimeter during a wind of twenty-five miles per hour velocity. Satisfactory evidence of compliance must be furnished to the architect.

Finish: The windows are to be finished in the natural aluminum color. After fabrication, surface blemishes, scratches and tool marks are to be removed and the exposed surfaces are to be cleaned to a uniform color and texture. A protective coating of transparent lacquer is to be applied to the windows before shipment from the factory. The lacquer must be such as will withstand the action of lime mortar for a period of at least one month in an atmosphere of 100% relative humidity at room temperature.

Installation: The window manufacturer is to furnish detail drawings for the installation of the windows. The panel units may be installed independently of the sliding units. The sliding units may be installed after the plastering has been completed, at the option of the contractor.

The installation contractor shall apply mastic or caulking compound, install the windows straight, plumb and level and securely fasten them in place. Care must be exercised to prevent twisting or springing of the windows in a manner that would cause the tracks of the sliding sash frames to get out of alignment. After the windows are installed, they are to be adjusted if necessary, to insure their efficient operation.

Glazing: The sliding sash will be shipped knocked down for assembly at the time of glazing. The sash are to be glazed on the bench with double strength glass in vinylite settings furnished by the manufacturer (or one-half inch thick double glazing). The panels which are not to receive sliding window units shall be glazed with double strength glass (or one-quarter inch thick plate glass or one-half inch thick double glazing) installed with spring clips furnished by the window manufacturer and set in aluminum colored metal sash glazing compound.

OPTIONAL

FIN-TRIM

The jambs, head and sill of the windows are to be equipped with an extruded aluminum Fin-Trim of .062 inch minimum thickness. The Fin-Trim is to be securely attached to the exterior of the window frame. The head and sill trim are to be omitted for solid masonry construction.

GLAZING BEADS

The panels which are not to receive sliding window units, are to have extruded aluminum snap-on glazing beads to cover the glazing compound.

DOUBLE GLAZED SLIDING SASH

The sliding sash shall be designed to receive one-half inch thick double glazing.

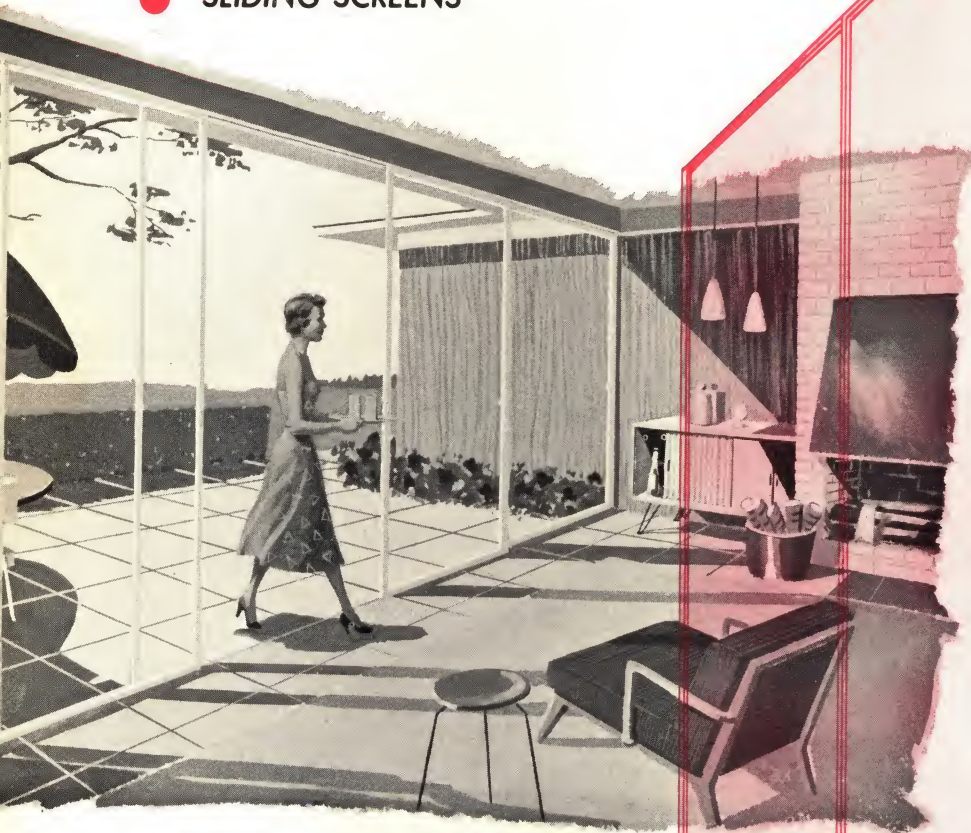
SCREENS AND STORM SASH

The sliding units of the windows shall be equipped with "ALWINTITE" aluminum screens. The sliding units (and panels not equipped with sliding units) shall be equipped with "ALWINTITE" storm sash.



Aluminum PAN-O-RAMA SLIDING WALLS

- ADDS DISTINCTION TO ANY HOME
- COMPLETELY WEATHERSTRIPPED
- EASY GLIDE BALL BEARING ROLLERS
- SLOPING SILL DRAINS TO EXTERIOR
- ACCOMMODATES INSULATING GLASS
- SLIDING SCREENS

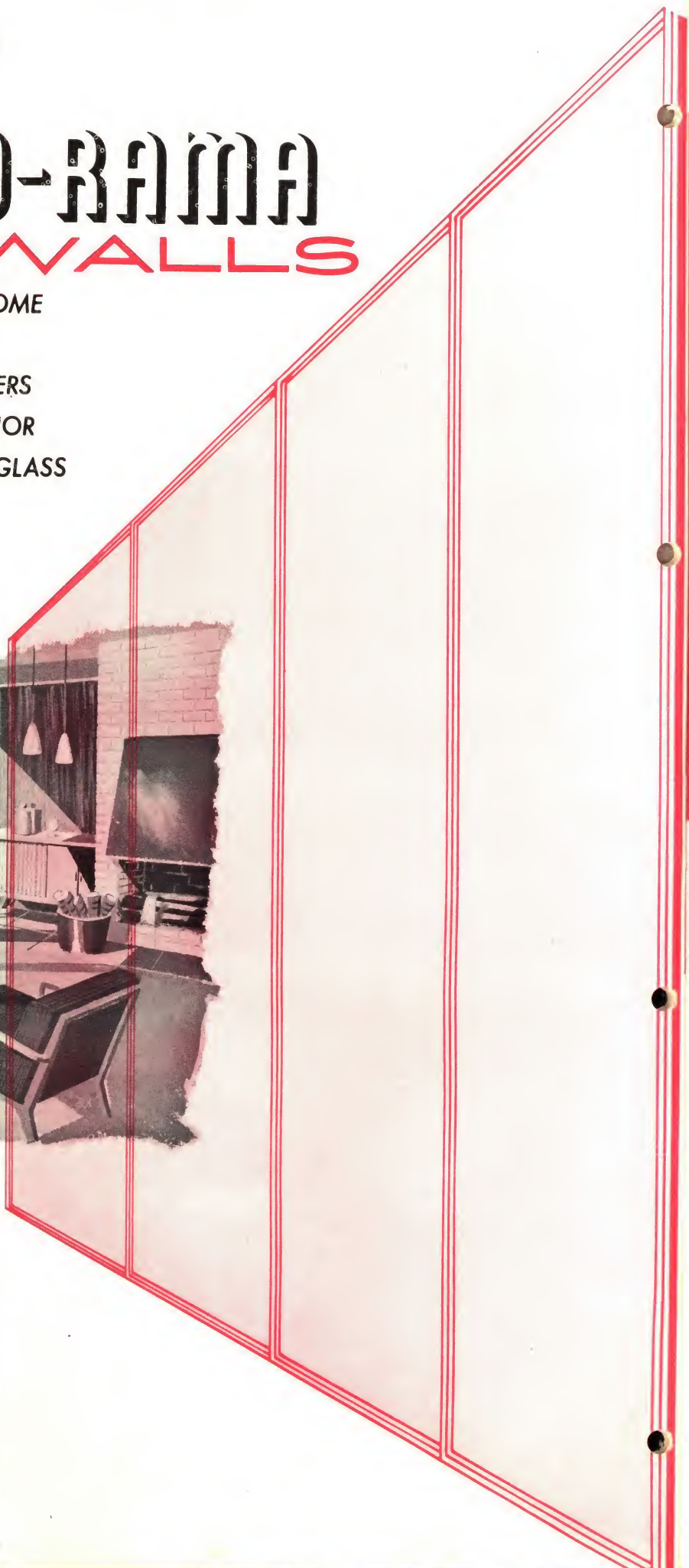


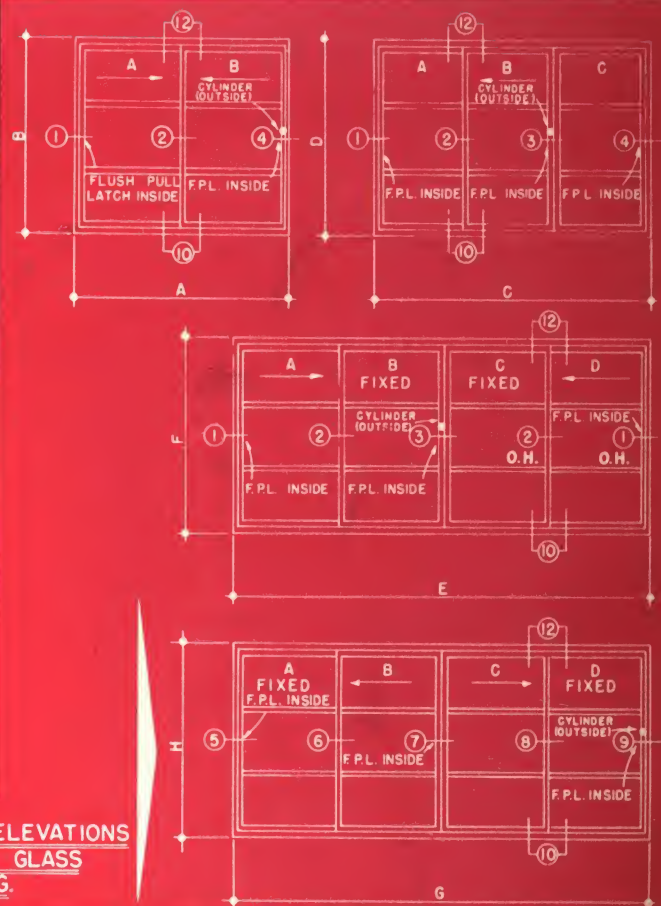
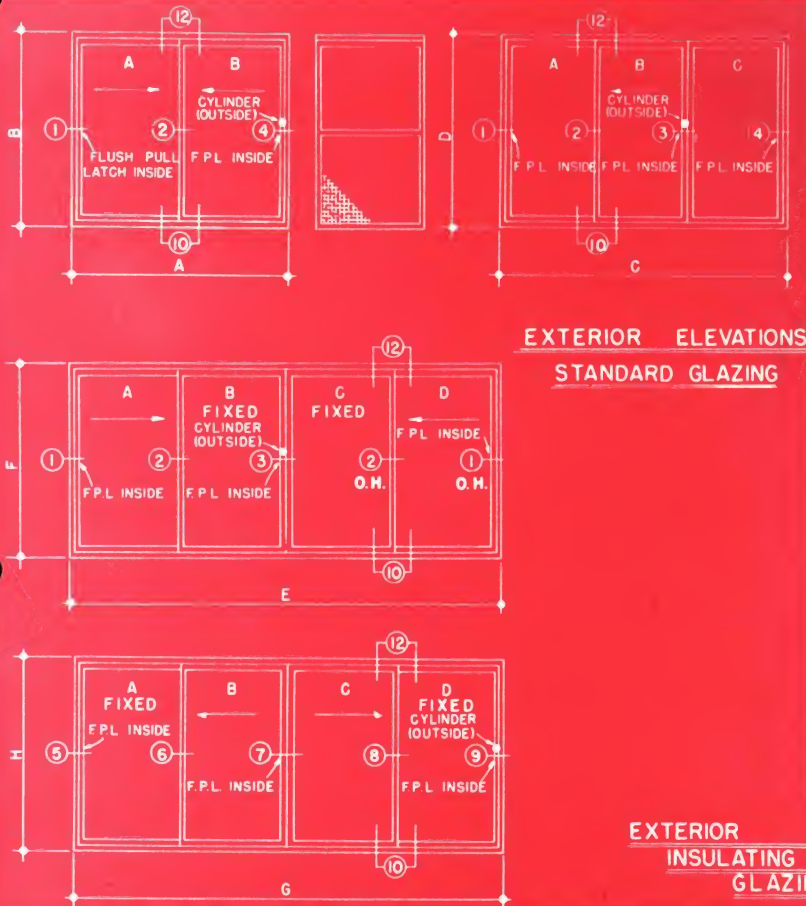
PAN-O-RAMA SLIDING WALLS

... are wonderful for living rooms, dining rooms, or recreation rooms... especially those which lead out to a terrace, patio or porch.

Constructed from heavy gauge aluminum extrusions that cannot rust, these sturdy doors glide smoothly and easily, yet are completely weatherstripped to keep out cold drafts and rain. Full height sliding screens are provided for summer comfort. ALWINTITE SLIDING WALLS are equipped with a strong, sturdy lock with outside key, for maximum protection.

ALWINTITE SLIDING WALLS enable unusual treatment for commercial store fronts; also ideal for interior use in apartments, offices, hospitals and other institutions.





SCHEDULE OF SIZES FOR ALWINTITE SLIDING WALLS

Type	Overall Frame Size		No. of Panels	Individual Panel Size		1/2" Insulating Glass Size		1/4" Plate Glass Size	Wall Area @		Ventilating Area
	Width	Height		Width	Height	Special	Muntins				
67	6'-0 3/8" A	6'-11 3/8" B	2	3'-0 3/8"	6'-9 1/8"	33 3/8" x 38 1/2"	1	33 3/8" x 77 7/8"	39.48	Sq. Ft.	18.94
77	7'-0 3/8" A	6'-11 3/8" B	2	3'-6 3/8"	6'-9 1/8"	39 3/8" x 25 3/8"	2	39 3/8" x 77 7/8"	46.19	" "	22.29
87	8'-0 3/8" A	6'-11 3/8" B	2	4'-0 3/8"	6'-9 1/8"	*45 1/2" x 25 1/2"	2	45 1/2" x 78"	52.90	" "	25.65
88	8'-0 3/8" A	7'-11 3/8" B	2	4'-0 3/8"	7'-9 1/8"	45 3/8" x 29 3/8"	2	45 3/8" x 89 7/8"	60.78	" "	29.47
97	9'-0 3/8" A	6'-11 3/8" B	2	4'-6 3/8"	6'-9 1/8"	51 3/8" x 25 3/8"	2	51 3/8" x 77 7/8"	59.61	" "	29.00
98	9'-0 3/8" A	7'-11 3/8" B	2	4'-6 3/8"	7'-9 1/8"	51 3/8" x 29 3/8"	2	51 3/8" x 89 7/8"	68.49	" "	33.32
107	10'-0 3/8" A	6'-11 3/8" B	2	5'-0 3/8"	6'-9 1/8"	57 3/8" x 25 3/8"	2	57 3/8" x 77 7/8"	66.31	" "	32.35
108	10'-0 3/8" A	7'-11 3/8" B	2	5'-0 3/8"	7'-9 1/8"	57 3/8" x 29 3/8"	2	57 3/8" x 89 7/8"	76.20	" "	37.18
127	12'-2 3/8" A	6'-11 3/8" B	2	6'-1 1/2"	6'-9 1/8"	70 1/4" x 18 13/16"	3	70 1/4" x 77 7/8"	80.71	" "	39.55
128	12'-2 3/8" A	7'-11 3/8" B	2	6'-1 1/2"	7'-9 1/8"	70 1/4" x 21 13/16"	3	70 1/4" x 89 7/8"	92.74	" "	45.45
127AC	12'-2 3/8" C	6'-11 3/8" D	3	2=4'-0 3/8" 1=4'-1 1/4"	6'-9 1/8"	*45 1/2" x 25 1/2"	2	45 1/2" x 78"	80.71	" "	24.88
128AC	12'-2 3/8" C	7'-11 3/8" D	3	2=4'-0 3/8" 1=4'-1 1/4"	7'-9 1/8"	45 3/8" x 29 3/8"	2	45 3/8" x 89 7/8"	92.74	" "	28.59
147BC	14'-0 3/4" E	6'-11 3/8" F	4	3'-6 3/8"	6'-9 1/8"	39 3/8" x 25 3/8"	2	39 3/8" x 77 7/8"	93.22	" "	44.93
148BC	14'-0 3/4" E	7'-11 3/8" F	4	3'-6 3/8"	7'-9 1/8"	39 3/8" x 29 3/8"	2	39 3/8" x 89 7/8"	107.11	" "	51.63
167BC	16'-0 3/4" E	6'-11 3/8" F	4	4'-0 3/8"	6'-9 1/8"	*45 1/2" x 25 1/2"	2	45 1/2" x 78"	106.63	" "	51.65
168BC	16'-0 3/4" E	7'-11 3/8" F	4	4'-0 3/8"	7'-9 1/8"	45 3/8" x 29 3/8"	2	45 3/8" x 89 7/8"	122.53	" "	59.33
187BC	18'-0 3/4" E	6'-11 3/8" F	4	4'-6 3/8"	6'-9 1/8"	51 3/8" x 25 3/8"	2	51 3/8" x 77 7/8"	120.05	" "	58.35
188BC	18'-0 3/4" E	7'-11 3/8" F	4	4'-6 3/8"	7'-9 1/8"	51 3/8" x 29 3/8"	2	51 3/8" x 89 7/8"	137.95	" "	67.05
207BC	20'-0 3/4" E	6'-11 3/8" F	4	5'-0 3/8"	6'-9 1/8"	57 3/8" x 25 3/8"	2	57 3/8" x 77 7/8"	133.48	" "	65.06
208BC	20'-0 3/4" E	7'-11 3/8" F	4	5'-0 3/8"	7'-9 1/8"	57 3/8" x 29 3/8"	2	57 3/8" x 89 7/8"	153.36	" "	74.75
247BC	24'-4 1/4" E	6'-11 3/8" F	4	6'-1 1/2"	6'-9 1/8"	70 1/4" x 18 13/16"	3	70 1/4" x 77 7/8"	162.26	" "	79.70
248BC	24'-4 1/4" E	7'-11 3/8" F	4	6'-1 1/2"	7'-9 1/8"	70 1/4" x 21 13/16"	3	70 1/4" x 89 7/8"	186.45	" "	91.60
147AD	14'-0 3/4" G	6'-11 3/8" H	4	3'-6 3/8"	6'-9 1/8"	39 3/8" x 25 3/8"	2	39 3/8" x 77 7/8"	93.22	" "	44.23
148AD	14'-0 3/4" G	7'-11 3/8" H	4	3'-6 3/8"	7'-9 1/8"	39 3/8" x 29 3/8"	2	39 3/8" x 89 7/8"	107.11	" "	50.83
167AD	16'-0 3/4" G	6'-11 3/8" H	4	4'-0 3/8"	6'-9 1/8"	*45 1/2" x 25 1/2"	2	45 1/2" x 78"	106.63	" "	50.94
168AD	16'-0 3/4" G	7'-11 3/8" H	4	4'-0 3/8"	7'-9 1/8"	45 3/8" x 29 3/8"	2	45 3/8" x 89 7/8"	122.53	" "	58.54
187AD	18'-0 3/4" G	6'-11 3/8" H	4	4'-6 3/8"	6'-9 1/8"	51 3/8" x 25 3/8"	2	51 3/8" x 77 7/8"	120.05	" "	57.65
188AD	18'-0 3/4" G	7'-11 3/8" H	4	4'-6 3/8"	7'-9 1/8"	51 3/8" x 29 3/8"	2	51 3/8" x 89 7/8"	137.95	" "	66.17
207AD	20'-0 3/4" G	6'-11 3/8" H	4	5'-0 3/8"	6'-9 1/8"	57 3/8" x 25 3/8"	2	57 3/8" x 77 7/8"	133.48	" "	64.36
208AD	20'-0 3/4" G	7'-11 3/8" H	4	5'-0 3/8"	7'-9 1/8"	57 3/8" x 29 3/8"	2	57 3/8" x 89 7/8"	153.36	" "	73.95
247AD	24'-4 1/4" G	6'-11 3/8" H	4	6'-1 1/2"	6'-9 1/8"	70 1/4" x 18 13/16"	3	70 1/4" x 77 7/8"	162.26	" "	78.96
248AD	24'-4 1/4" G	7'-11 3/8" H	4	6'-1 1/2"	7'-9 1/8"	70 1/4" x 21 13/16"	3	70 1/4" x 89 7/8"	186.45	" "	90.73

GLASS TOLERANCES:

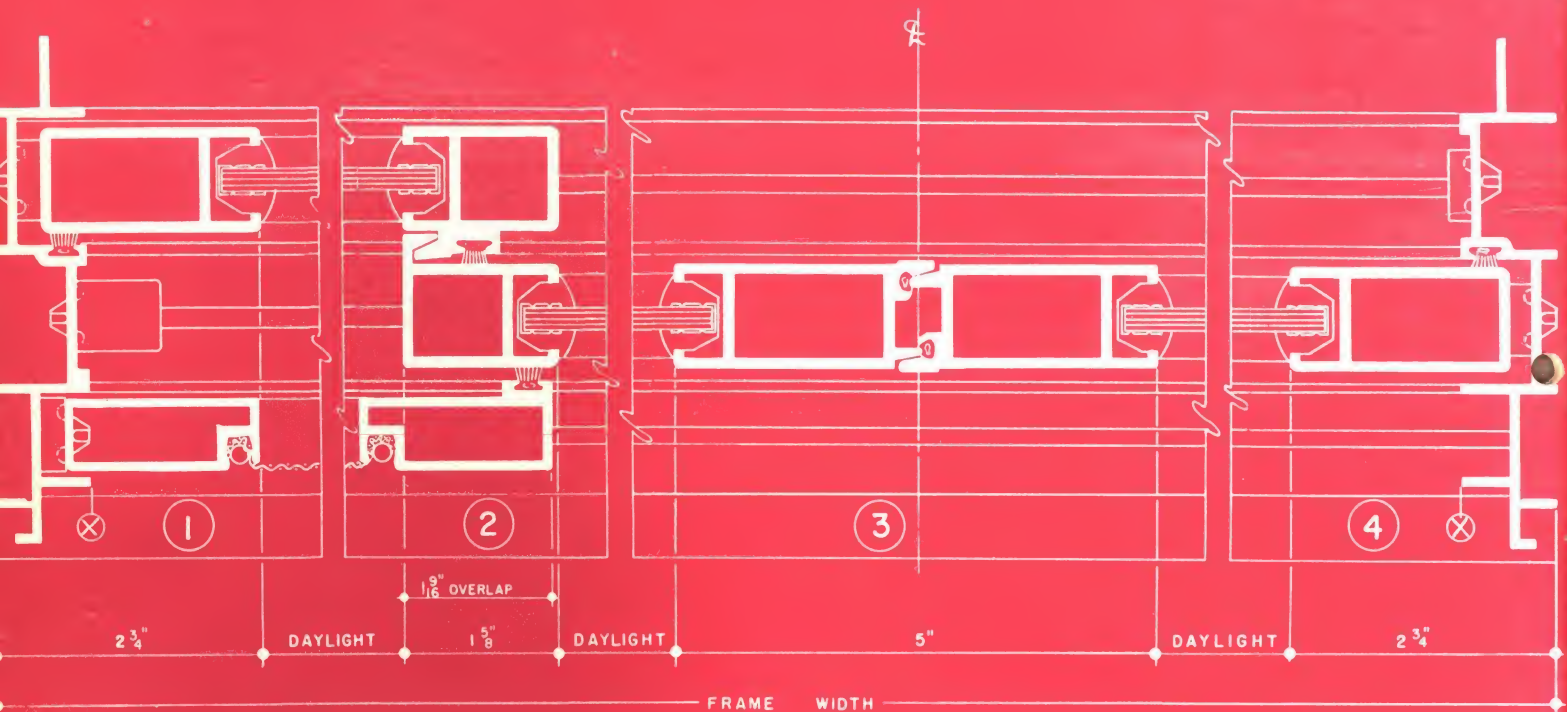
1/4" PLATE GLASS +1/16" -0"

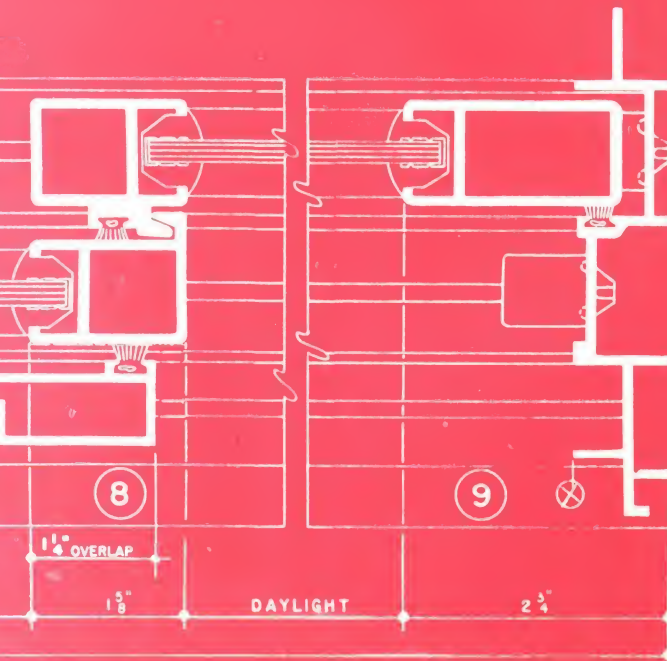
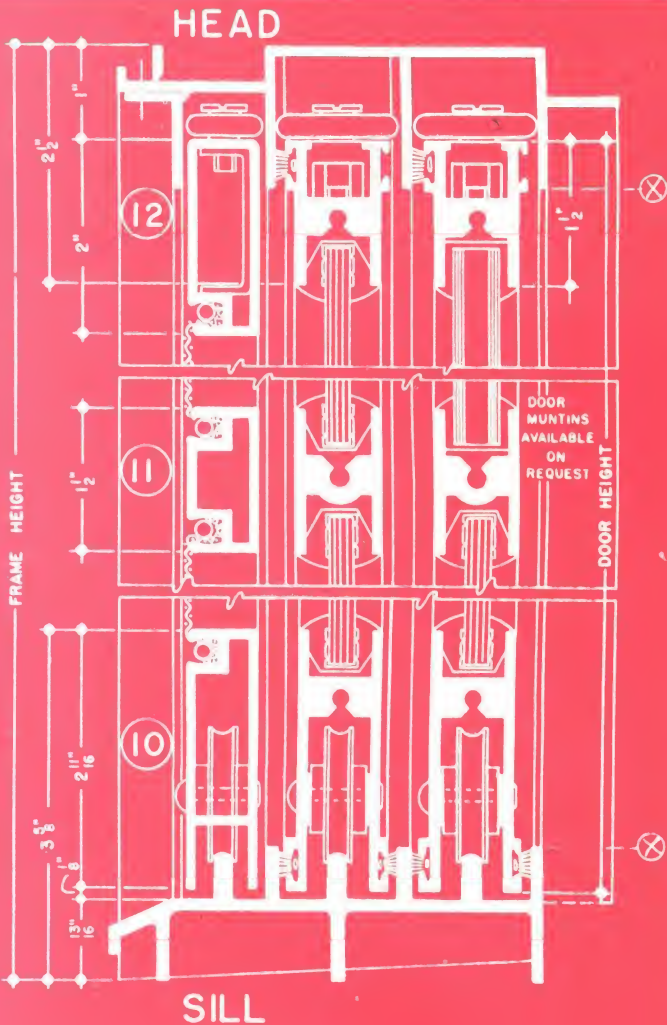
1/2" INSULATING GLASS ±1/16"

*Denotes stock size insulating glass

• PAN-O-RAMA SLIDING WALLS

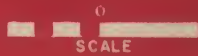
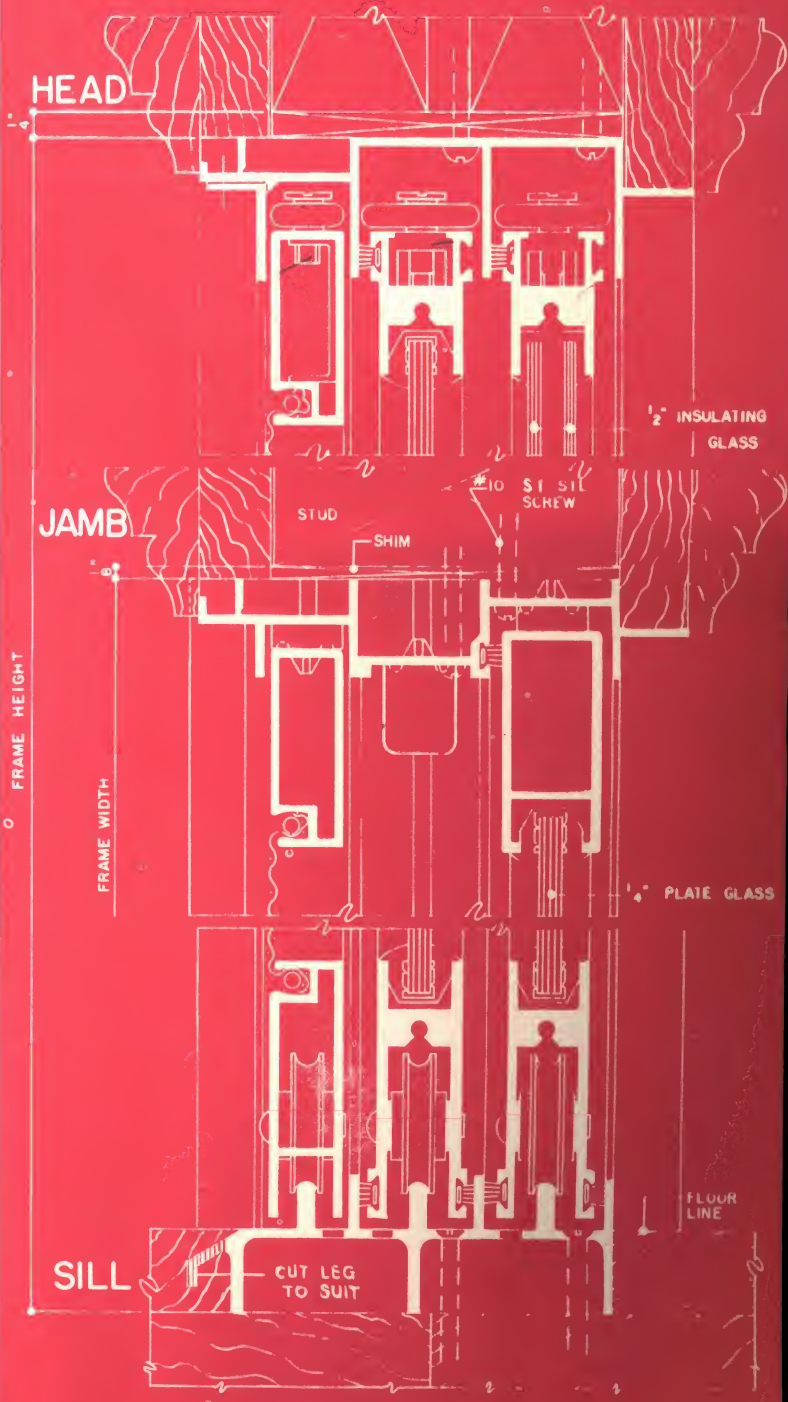
HALF SIZE DETAILS

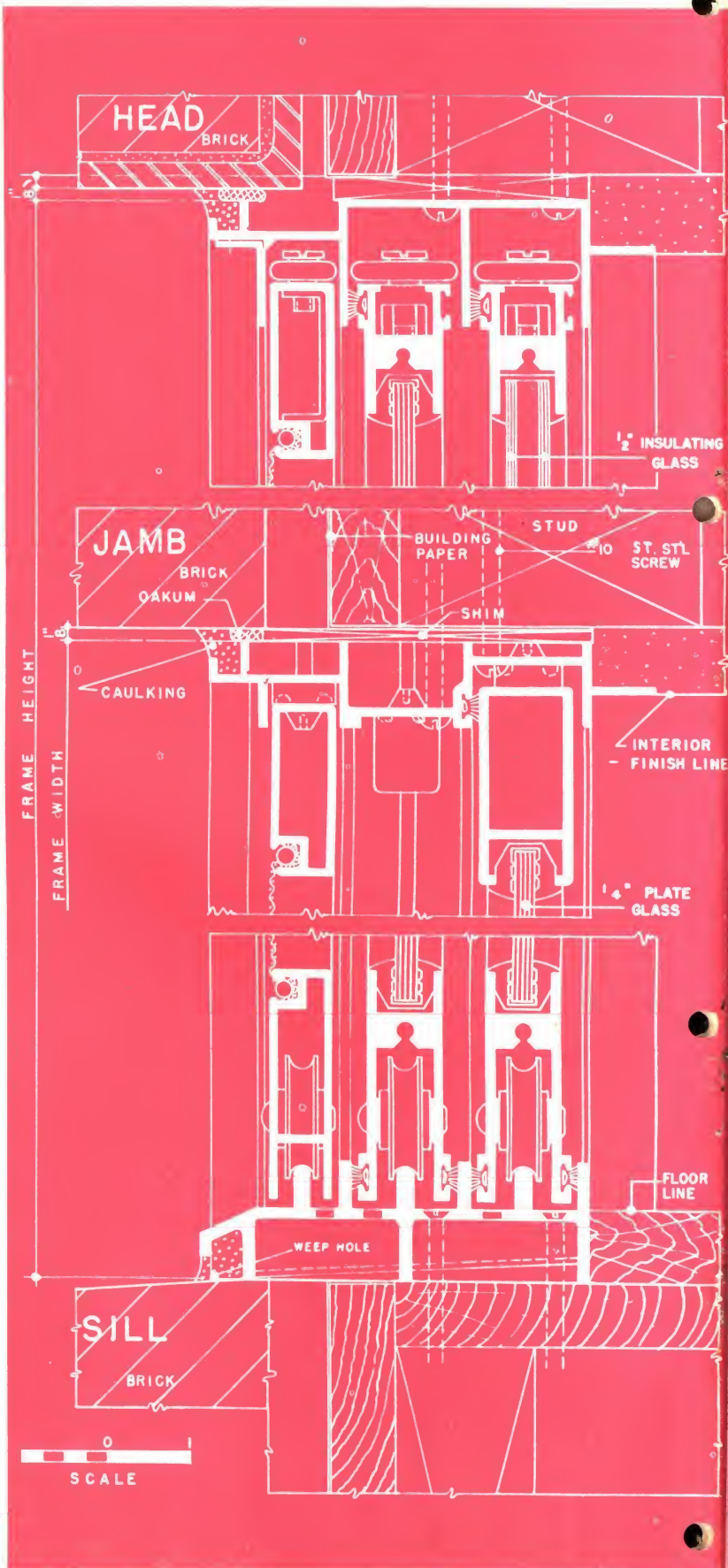
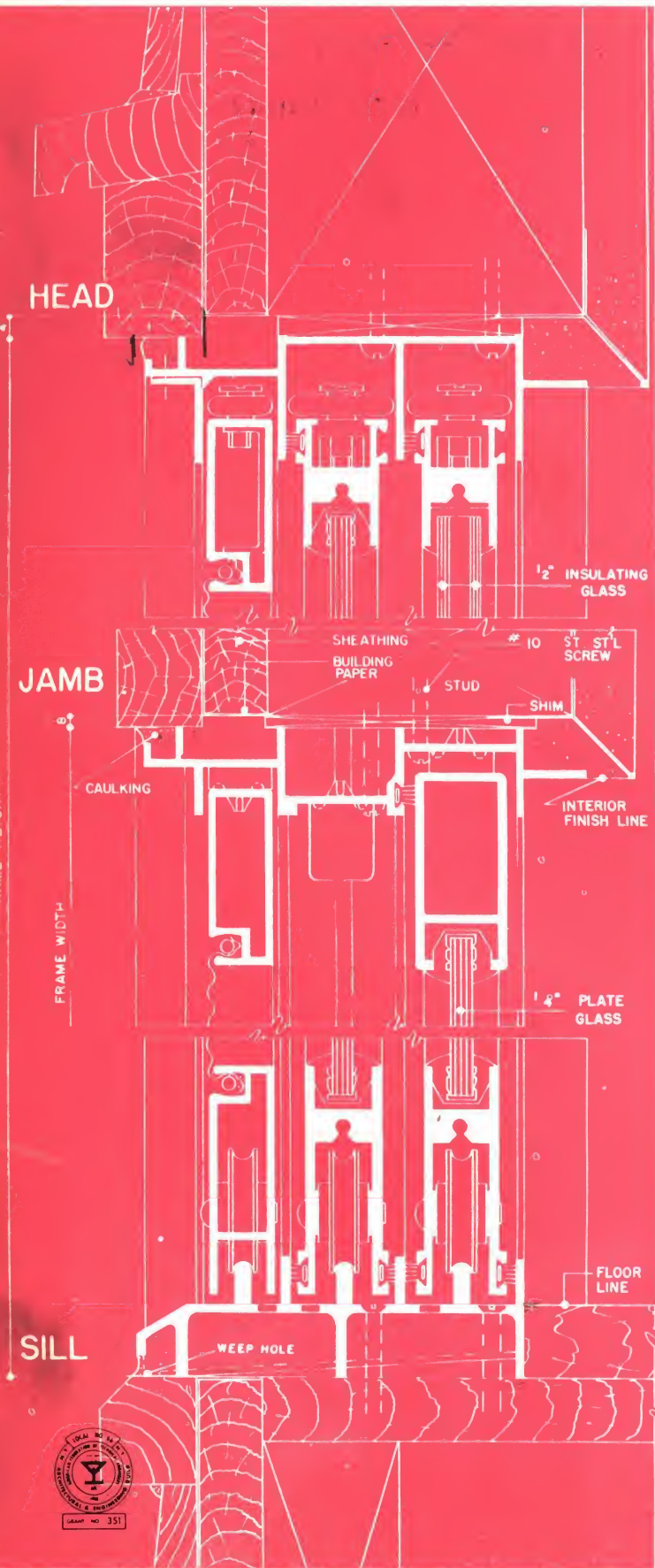




HALF SIZE INSTALLATION DETAILS

Interior Partition

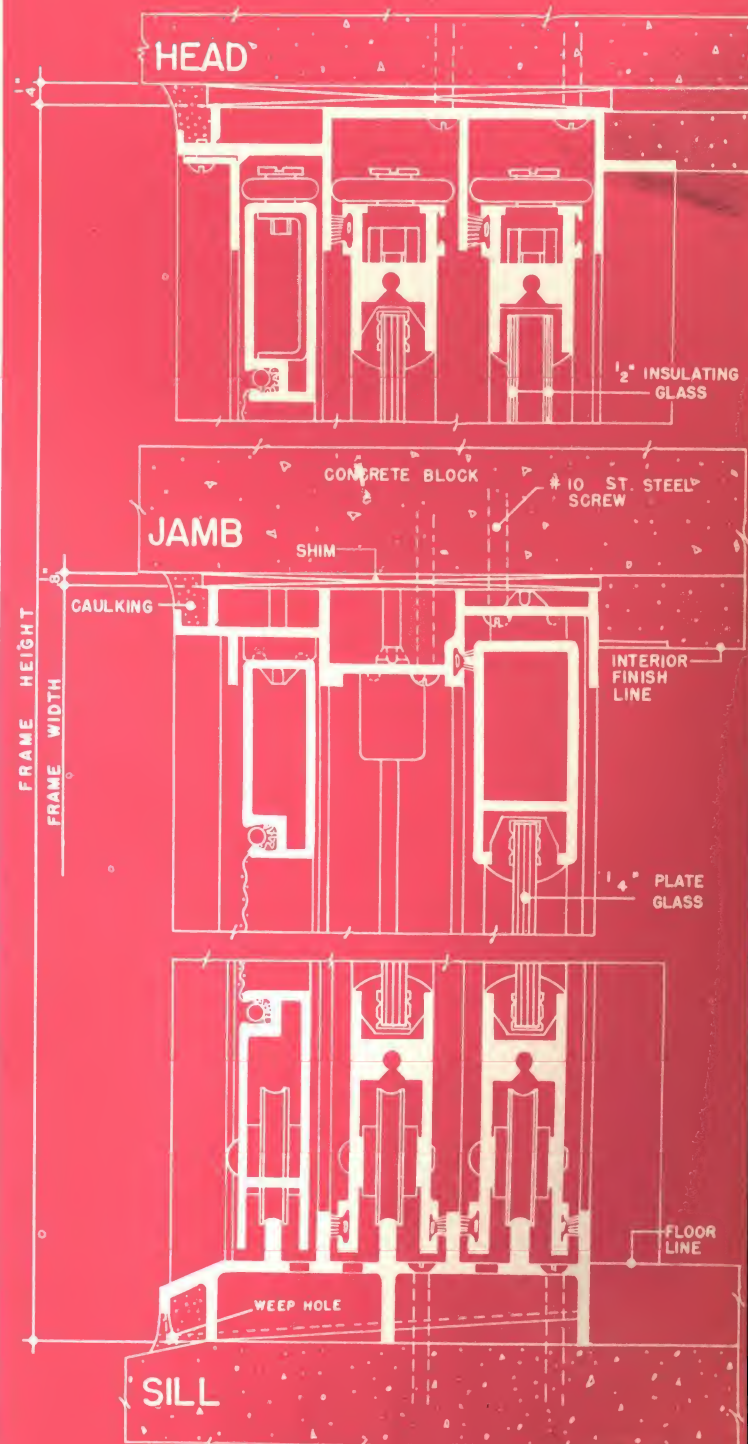
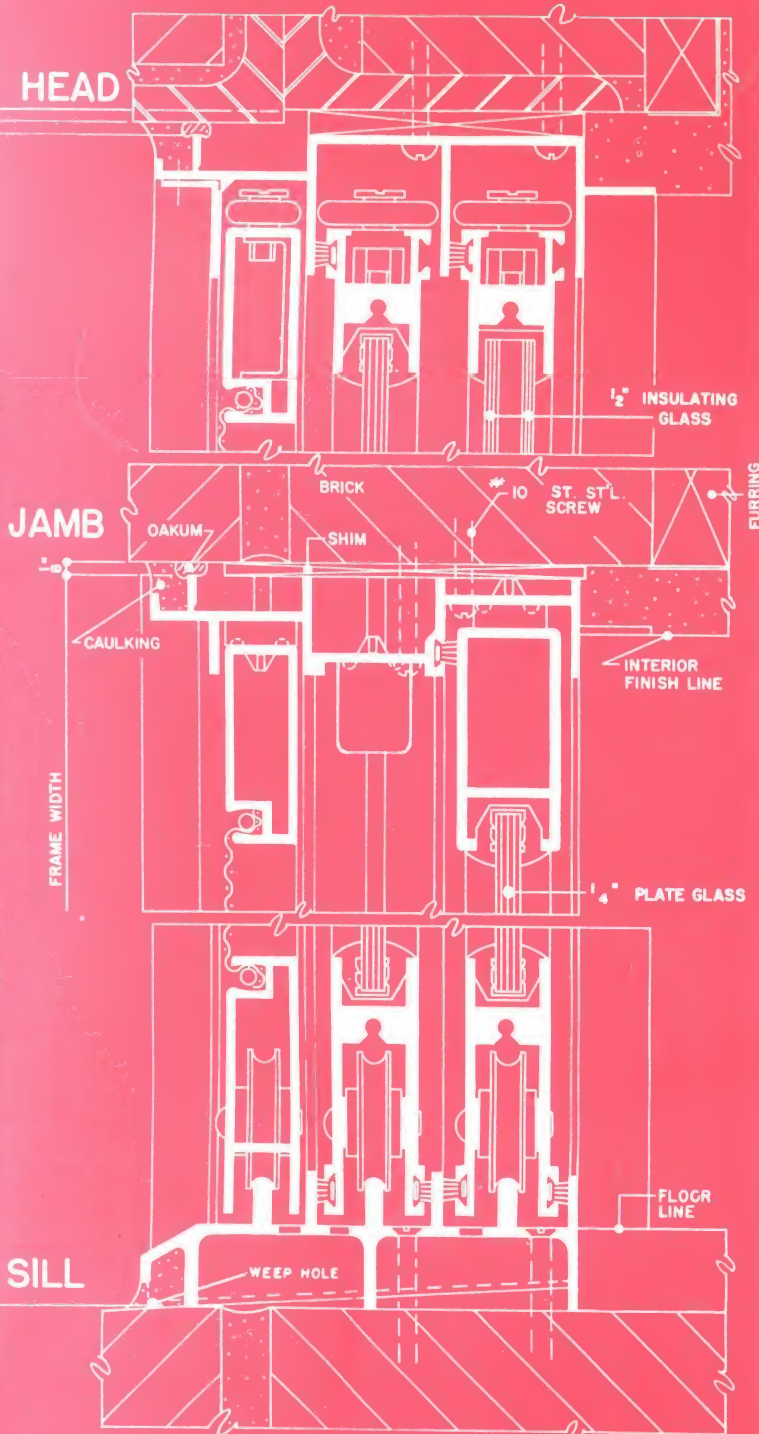




HALF SIZE INSTALLATION DETAILS

SOLID BRICK

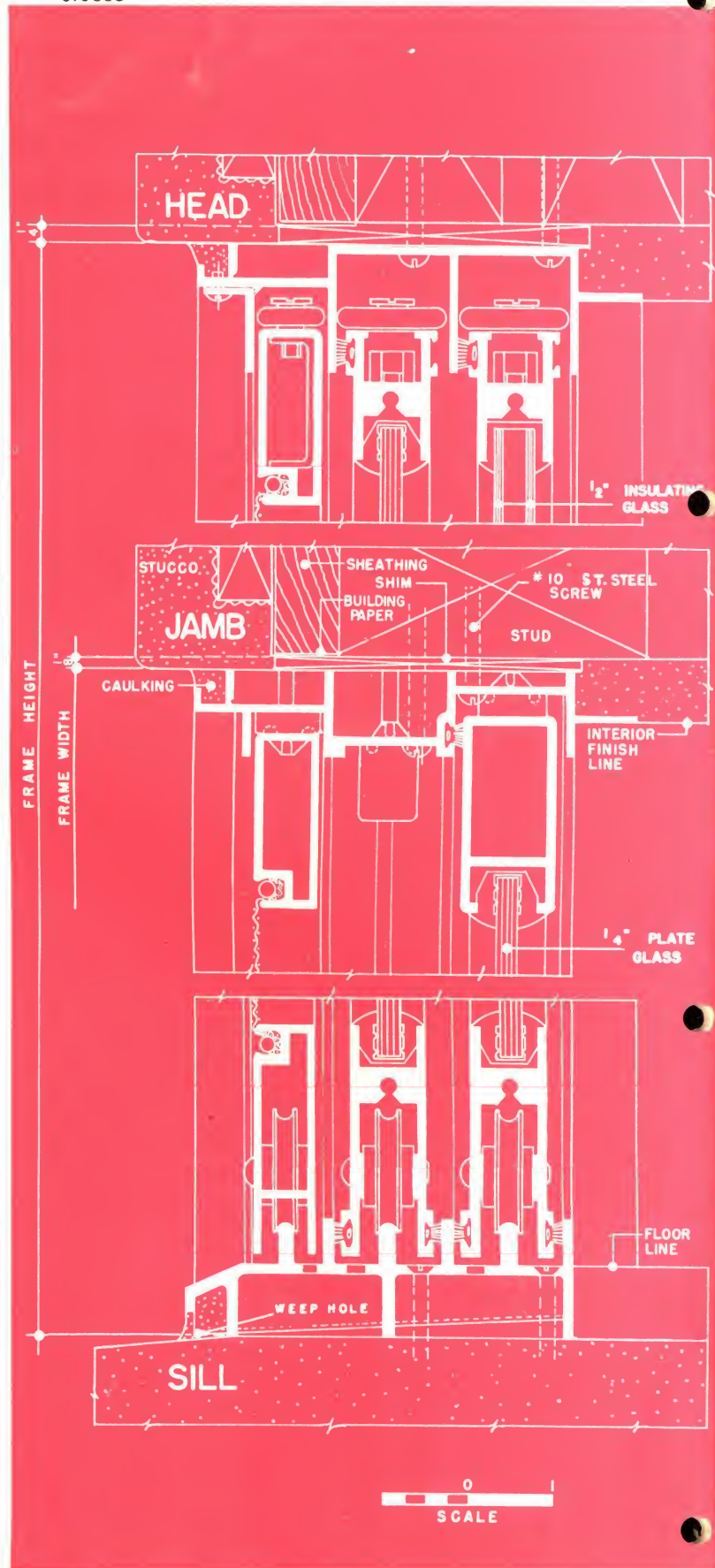
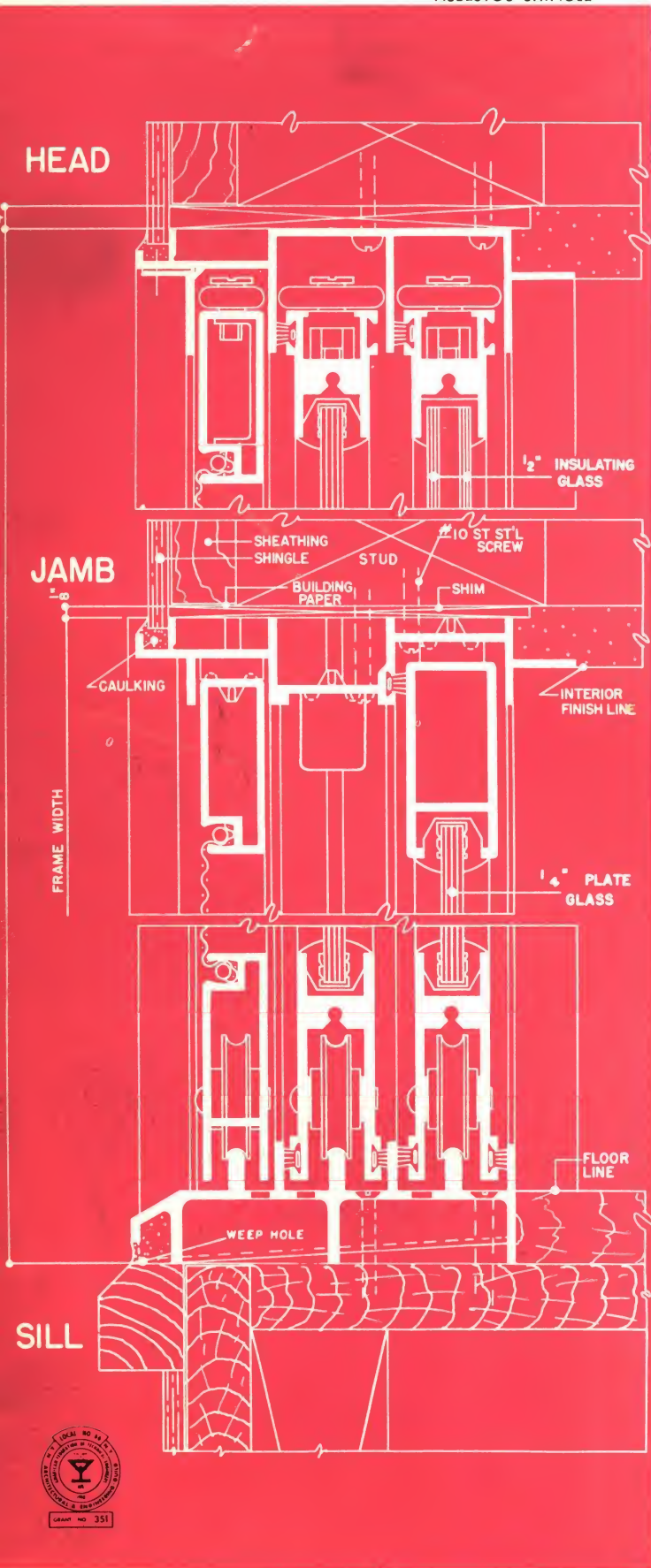
CONCRETE BLOCK



HALF SIZE INSTALLATION DETAILS

ASBESTOS SHINGLE

STUCCO



SPECIFICATIONS

General: The Aluminum Sliding Walls shown on the architect's drawings shall be PAN-O-RAMA type as manufactured by the General Bronze Corporation ("ALWINTITE" Division), Garden City, New York.

Materials and Construction: PAN-O-RAMA Walls shall be constructed from heavy gauge extruded aluminum of 63S-T5 alloy. Frame members shall consist of sill track, head channel track, and jamb sections. Jamb sections shall be coped to interlock with sill and head members for maximum twist resistance; and when sections are secured within exterior wall opening, the joints shall be weatherproof.

Sash stiles shall be constructed of tubular extruded sections milled at ends to receive bottom and top rails, overlapping them for the complete height of rails, and shall be secured to rails with a stainless steel Phillips head self-tapping screw.

Weatherstripping: Weatherstripping shall be Schlegel pile lining of the highest quality throughout and shall form a continuous weather seal.

Hardware: Sliding panel shall be manually operated flush cup-type interior slide latch which can be dead-bolted by cylinder operated with key from exterior side, and which will not interfere with sash by-passing each other in operation. Rubber bumpers shall be attached to jambs and stiles of sliding panels. Each sliding panel shall be equipped with 2 steel cadmium-plated ball bearing rollers at bottom, and two Spauldite rollers at top.

Finish: Panels are to be finished in natural aluminum color. After fabrication, surface blemishes, scratches and tool marks

are to be removed and exposed surfaces are to be cleaned to a uniform color and texture. A protective coat of transparent lacquer is to be applied to the panels before shipment from the factory. The lacquer must be such as will withstand the action of lime water for a period of at least one month in an atmosphere of 100% relative humidity at room temperature.

Installation (by others): The Sliding Wall manufacturer is to furnish detailed installation drawings. Frames may be installed independently of the sliding units. Glazed sliding panels may be installed in the frames after the plastering has been completed, at option of the contractor.

The installation contractor shall apply mastic or caulking compound, install the frames straight, plumb and level, and securely fasten them in place. Care must be exercised to prevent twisting of the frame or springing it in a manner that would cause the tracks to get out of alignment. Sliding doors shall retain proper weathering contact to the frames, and after they are installed they are to be adjusted if necessary to insure their efficient operation.

Glazing: The sliding and fixed panels will be shipped knocked down for assembly at the time of glazing, and are to be glazed with 1/4 inch plate glass or 1/2 inch thick insulating glass set in vinyl chloride glazing bead furnished by the manufacturer.

Screens: The sliding panels shall be equipped with "ALWINTITE" aluminum screens similar in construction to the door panels with rollers, bumpers and vertically operated dead-bolt lock. They shall be fitted with Alclad insect screen cloth, No. 18 x 14 mesh.





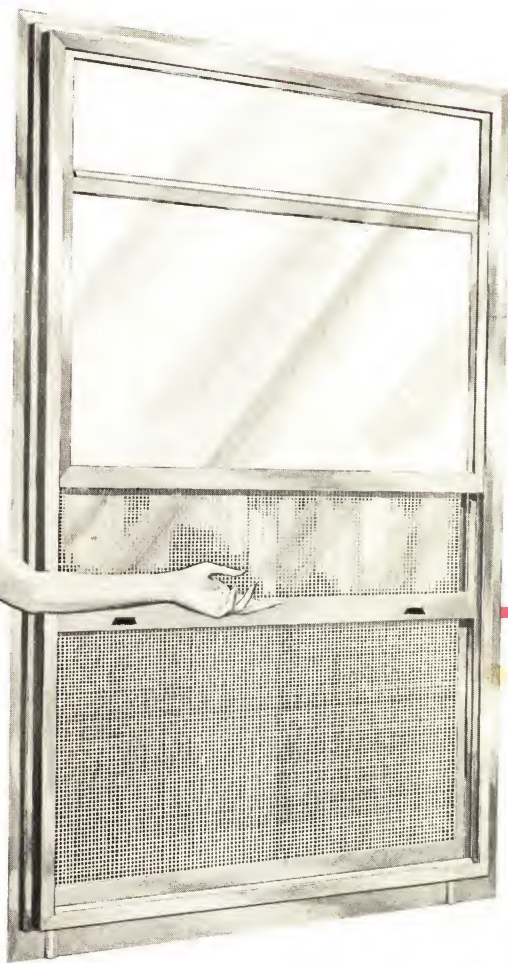
ALWINTITE

COMBINATION SCREEN AND STORM WINDOWS

Combination

SCREEN and STORM WINDOWS

SPECIFY "ALWINTITE" COMBINATION WINDOWS FOR ADDED COMFORT... PLUS CONVENIENCE... AND VALUE TO ANY HOME YOU MAY BUILD. GENERAL BRONZE ENGINEERS HAVE DESIGNED THIS NEW SELF-STORING "TRIPLE CHANNEL" WINDOW WITH THE LATEST CONSTRUCTION FEATURES FOR DURABILITY, SMART TRIM LINES AND EASY, EFFICIENT OPERATION.



Beauty of Design



Architecturally designed for beauty and durability. Increases home attractiveness and resale value. Rust-proof, rot-proof, termite-proof.

Comfort All Year Round



Weatherstrip action seals out cold drafts. Controlled ventilation with screen in top or bottom position. Positive locking for double-safe security.

Time Saving Convenience



Easy to keep clean. self-storing for instant changeover. No ladder climbing, no extra storage space, no paint mess. All units can be opened at same time or removed quickly for maintenance or emergency.

More Economics

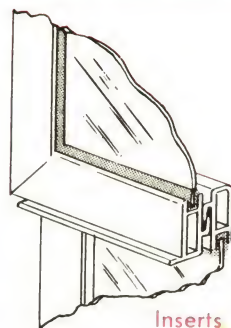


Heat losses are reduced noticeably, resulting in substantial savings that can pay for the windows within a few years. Maintenance costs are cut to zero...eliminates painting...gives trouble-free performance.

Long Lasting investment

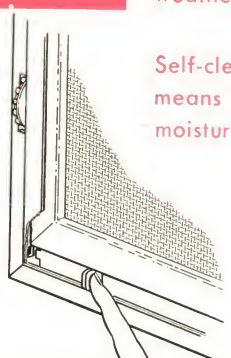


Made from extruded, architectural aluminum sections. Rigid construction with reinforced corners for extra strength. "Dependability for longer lasting service"... backed by the know-how of over 40 years' experience.

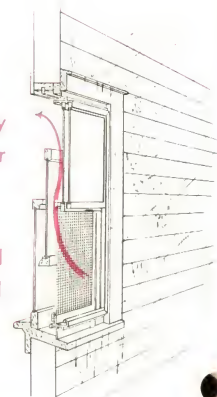


Interlocking meeting rail cuts draft, eliminates "wind rattle", and reduces heat loss

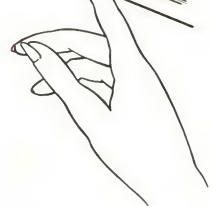
Inserts hold firmly in any position required for weather changes



Self-cleaning, sloping sill means minimum dust and moisture



Safety devices protect against prowlers all year 'round — windows lock with sash or screen in upper or lower position



Fingertip dial for instant, easy removal of inserts



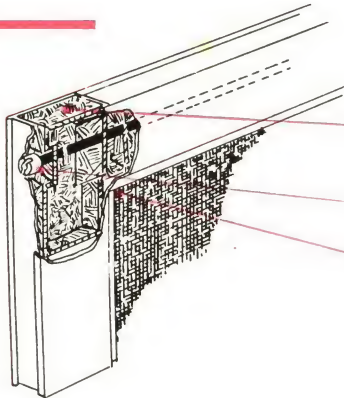
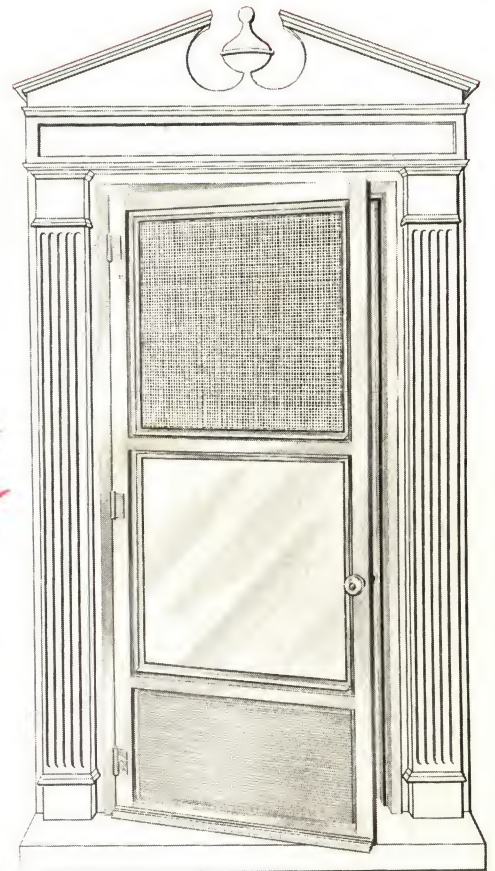
Streamlined, modern design — exterior attractiveness for every type of home



ALUMINUM COMBINATION

STORM and SCREEN DOOR

PLAY SAFE WHEN YOU SPECIFY "ALWINTITE" COMBINATION DOORS FOR ANY HOME. GET MORE VALUE . . . MORE BEAUTY . . . MORE QUALITY . . . BETTER PERFORMANCE. "ALWINTITE" DOORS ARE FACTORY TESTED AND HOME TESTED TO PROVIDE GREATEST ALL YEAR 'ROUND PROTECTION AND CONVENIENCE.



CUSHION CLOSURE—Patented ethyl cellulose* reinforcing blocks in all four corners to absorb shock for extra protection against slamming.

TENSION RODS—Super-strength tension rods run completely through top and bottom of door for tight, perfect fit at all times.

BUTTED CORNERS—Architecturally preferred for beauty, design, strength and rigidity.

EMBOSSSED KICKPLATE—Heavy gauge aluminum for sturdiness, tempered to high degree of scuff resistance. Embedded in Vinyl for firm, quiet, weather-tight fit.

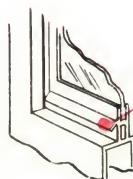
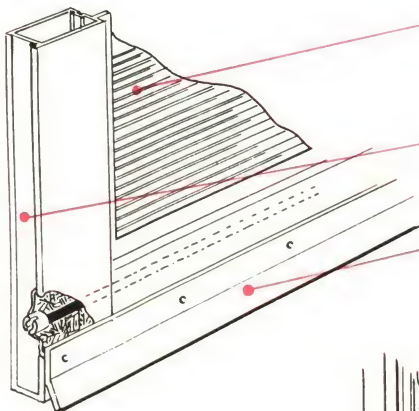
FULL ONE INCH THICKNESS—"More door for your money" gives you extra beauty—extra rigidity—extra strength.

BUILT-IN SWEEP—Made of durable vinyl, eliminates under-door draft and accumulations of dust and snow.

VINYL WEATHERSTRIPPING—Eliminates drafts—always stays supple, will not crack or rot.

WEATHERLIP ON STORM INSERTS—Sheds rain and adds extra protection against driving dust.

**Patented material by the U. S. Navy*

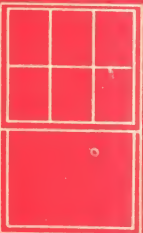




ALWINTITE®

There is an ALWINTITE Aluminum Window for any project you may plan . . . small homes, luxury homes, multifamily structures, industrial buildings, schools, hospitals or public buildings.

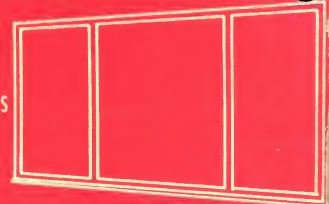
DOUBLE HUNG WINDOWS



HORIZONTAL SLIDING WINDOWS



PICTURE SLIDING WINDOWS



VIEWALL WINDOW WALLS



AWNING WINDOWS



SLIDING WALLS



ALWINTITE DIVISION: GENERAL BRONZE CORPORATION

GARDEN CITY, LONG ISLAND, NEW YORK

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